# Contents

## Introduction
- Welcome to the Customer
- Who are Reagecon?
- Reagecon Technical Services
- Accreditations at Reagecon
- Vendor Managed Services Programme
- The Metrologist
- A Unique Value Proposition for Instrument Manufacturers & OEM/Private Label Customers
- Request for Customized Reagents
- Mini Catalogues
- Product Ranges Produced at Reagecon
- Techniques and Instruments Employed
- The Reagecon Hierarchy of Standards
- Global Metrology Development Centre

## Organic Standards
- Volatile Organic Compound Standards (VOCs)
- Phenol Standards
- Polycyclic Aromatic Hydrocarbon Standards (PAHs)
- Pesticide Standards
- Azo Dye Metabolite Standards
- Fatty Acid Methyl Ester & Fatty Acid Ethyl Ester Standards (FAME & FAEEs)
- Nitrosamine Standards
- Polychlorinated Biphenyl Standards (PCBs)
- Polybrominated Biphenyl Standards (PBBs)
- Polybrominated Diphenyl Ethers (PBDE) & Other Flame Retardant Standards
- Polychlorinated Biphenyl Standards (PCBs)
- Phthalate Standards
- Semi Volatile Organic Compound Standards (SVOCs)
- PIANO, PONA & PNA Standards
- Petrochemical Standards

## Total Organic Carbon/Total Inorganic Carbon Standards
- Premium Range
- Quality Range
- Instrument Specific Range

## Electrochemistry Standards
- Conductivity Standards
- pH Buffer Solutions
- Electrode Care & Maintenance Solutions
- Redox Standards
- Turbidity Standards
- Chemical Oxygen Demand
- Ion Selective Electrode Standards & Ionic Strength Adjustors

## Standards for Anion & Cation Analysis
- ICP-MS/ICP-OES Standards
- Ion Chromatography Standards
- Atomic Absorption Standards
- Flame Photometry Standards

## Titration
- Analytical Volumetric Solutions & Indicator Solutions
- Total Acid Number/ Total Base Number Standards & Reagents

## Physiochemical Standards
- Colour Standards
- Spectrophotometry Standards
- Melting Point Standards
- Density Standards - Premium Range
- Density Standards - Quality Range
- Viscosity Standards
- ISO Guide 34 Certified Reference Materials: Sucrose in Water Standards
- Brix Standards (Stabilised)
- Refractive Index Standards
- Osmolality Standards
- Cryoscope Standards

## Standards & Solutions in Compliance to Pharmacopoeias
- United States Pharmacopoeia Solutions
- European Pharmacopoeia Solutions
- Buffered Eluents
- Dissolution Media - Concentrates
- Dissolution Media - Ready to use

## Industry Specific Standards & Reagents
- Dairy Standards & Reagents
- Standards & Reagents for APHA, AWWA & WEF Test Methods
- Wine Standards & Reagents
- Soil Testing Standards & Reagents
- Pulp & Paper Standards & Reagents

## General Laboratory Standards & Reagents
- Laboratory Water
- Cleaning Solutions
- Analyst Qualification Sets
Dear Customer,

Welcome to the new Reagecon Physical and Chemical Standards Compendium. Since the publication of our Physical and Chemical Standards and Reagents catalogue, substantial changes have occurred in the field of analytical chemistry. Stringent regulatory demands combined with major economic implications and increased competitiveness, places necessity for validation on every analytical test performed, either in the laboratory or in the field. Not only must the correct result be obtained, but proof must also be provided of its fitness for purpose, validity and accuracy. Such proof must then be accessible, retrievable and presented in an easily understood format. Reagecon continue to respond to these challenges by presenting to its customers, an ever increasing range of highly specified, stable, traceable and certified standards.

The use of standards such as calibrators or control materials can greatly increase the possibility for the analyst to obtain the correct result and can provide definitive proof of the correctness of such a result from a technical perspective. Such materials can also be used for method validation, instrument qualification, verification and analyst qualification.

Since the beginning of 2011, we have developed a major pipeline of new products and we now have a broader and more comprehensive range of physical and chemical standards than any other producer worldwide. We are privileged to be able to present these new ranges to you here, (in excess of 8,000 product numbers)

We hope you find this new compendium beneficial; that the products on offer match your technical specifications; represent value for money and that they will greatly enhance your ability to achieve valid and correct analytical results now and in the future.

Other rapidly occurring changes in the laboratory market place include stringent regulations pertaining to the shipment of hazardous goods, the development of e-commerce and the ever increasing requirement for Scientific Knowledge.

HAZARDOUS GOODS
Products which are known to be hazardous are labelled by Reagecon in accordance with The Globally Harmonised System of Classification and Labelling of Chemicals (GHS). The GHS is a system for standardising and harmonising the classification and labelling of chemicals.

RESEARCH AND DEVELOPMENT
From a strategic perspective, Research and Development continues to be a key business driver within Reagecon, with approximately 10% of our workforce engaged in this activity. Several industry or technology specific projects with various risk profiles are currently in the development pipeline. The progress of all of these projects as they reach maturity can be viewed at www.reagecon.com

TECHNICAL AND SCIENTIFIC LITERATURE
As a producer of high quality physical and chemical standards, Reagecon employ a large number of scientists in areas of: new product development, quality, manufacturing and technical services. Our Scientists produce a large output of original technical and scientific literature and are responsible for several publications every year relating to various aspects of analytical chemistry. A selection of these papers can be viewed and downloaded at our website: www.reagecon.com. Several of the chapters in this compendium also contain detailed original technical notes.
ACCREDITATION

Reagecon holds a unique position amongst producers of Standards and Reference Materials. We have achieved ISO/IEC 17025 (INAB Ref:265C) accreditation for all of the following fundamental metrological techniques:

- Calibration of laboratory balances
- Calibration of temperature controlled enclosures covering the scope of -196°C to +1200°C
- Calibration of single and multi-channel pipettes

These fundamental techniques alone or in combination continue to form the foundation cornerstone of metrology. They have a direct bearing on the measurement uncertainty of almost all Standards and Reference Materials.

E-COMMERCE

All of Reagecon's products can be purchased online from our web based laboratory shopping facility at www.reagecon.com

BUSINESS DEVELOPMENT

Over 30% of our workforce are engaged in Sales, Marketing and Business Development activities. At the time of writing we have specific departments dedicated to the following geographic regions: Ireland, UK, Western Europe, Eastern Europe, Middle East, Asia Pacific (including China), North and South America. This includes Reagecon office in China and distributors operating in over 150 countries globally. The introductory text, cover notes and technical information contained within this compendium is available on our website in most of the major world languages.

LABORATORY LOGISTICS GROUP

Reagecon is proud to be a partner company and shareholder in a large German based purchasing company called LLG (Laboratory Logistics Group).

At the time of writing LLG has up to 30 partner companies spread throughout Europe, Australia, Asia and the Middle East. This partnership affords Reagecon access to over 60,000 products which are contained in a large catalogue (see picture). It also confers the following additional benefits:

- Substantial stocks of laboratory consumables
- An excellent output of special promotions
- Outstanding networking opportunities with growth orientated partner companies, facilitating exchange of knowledge, trends and technical development.
- Transnational and cross cultural knowledge transfer, support, encouragement and insight into strategic thinking.

John J Barron
Managing Director
May 2016
Who are Reagecon?

Reagecon is based in Shannon, Ireland and has a sales office in Shanghai, China. The company operates from a 6000 sq. meter facility that includes a large suite of Manufacturing, Quality Control and Research and Development laboratories. We employ approximately 90 people, which includes 50 graduate or post-graduate chemists.

Traditionally, Reagecon’s manufactured products were on the lower end of the value chain and fitted into the classification of working/secondary standards. The development and production of such standards was consistent with our main technical competencies (method validation/accreditations).

Since 2011, we have escalated dramatically the range of working and secondary standards developed and we have moved up the value chain to include primary standards and Certified Reference Materials, because of our recently developed ability to perform raw material characterisation. We are now the largest producer in the world of Physical and Chemical Standards and Certified Reference Materials.

Applications of Physical & Chemical Standards

Physical and Chemical Standards are products that may be used for 6 main applications:

1. Calibrate scientific instrumentation in preparation for testing
2. Control the entire process during testing
3. Perform instrument qualification (IQ,OQ,PQ,MQ) prior to testing
4. Assist in method validation
5. Proficiency Testing
6. Analyst Qualifications Sets

The uses of Chemical and Physical Standards for Calibration, Control, Qualification, Validation and Proficiency are well documented in several publications produced by Reagecon. The uses of Physical and Chemical Standards as Qualification Sets is an exciting and brand new innovation from Reagecon launched recently. The principle, application, features and benefits of the technique are covered later in this compendium.
Reagecon Technical Services

Laboratories today are facing new pressures, with increased regulatory demands requiring validity on every analytical test performed. Not only must the correct result be obtained, but proof must also be provided of its fitness for purpose, comparability and accuracy.

Irrespective of whether your laboratory is involved in analytical chemistry, life sciences, biotechnology, the clinical or pharmaceutical industries, several factors play a role in these laboratory demands and the correct performance of your instruments and equipment is crucial.

Reagecon Technical Services has over 25 years experience of providing complete support solutions to laboratories. As a technical centre of excellence, we were the first company in Ireland to gain INAB (ISO/IEC 17025) Accreditation for Volume Calibration and were the first to offer INAB Accreditation across Volume, Weighing and Temperature. Services can be provided both on your site and in our dedicated metrology laboratory in Shannon (INAB Ref:265C).

Reagecon’s Technical Services Department can help you to determine all of your calibration, maintenance and service requirements. We can design a full programme to meet these requirements and manage the entire schedule for you, providing the following benefits to you:

- Managing fewer suppliers - using one company to manage calibration and service needs for all your equipment
- Easier scheduling - with the need to only contact one company for all your equipment needs
- Reduce downtime of equipment - on-site engineers can perform all services and work around your schedule in your laboratory
- Obtain the most competitive prices - reduce indirect costs by less administration of purchase orders and invoices

Customer case studies have shown that a saving of 55% in support overheads can be made by using one supplier for all of your calibration, technical service, and support requirements.

**VOLUME CALIBRATION SERVICES:** Reagecon were the first Irish company to gain ISO/IEC 17025 (INAB Ref. 265C) accreditation for calibration of pipettes and can calibrate both single and multi channel pipettes in our dedicated calibration laboratory or on our clients’ premises. Most calibration providers calibrate multi-channel pipettes one channel at a time, which does not replicate the pipettes use and so does not characterise their operational performance. Reagecon use a special-purpose balance to calibrate all channels simultaneously, resulting in a calibration certificate that fully characterises the pipette’s operational performance.

**WEIGHING CALIBRATION SERVICES:** Reagecon offers INAB accreditation for Weighing Calibration, with all makes and models of balances catered for (Ref. 265C). This service is provided on-site to laboratories anywhere. We can provide re-certification of your check weights for daily use.

**TEMPERATURE CALIBRATION SERVICES:** Reagecon offers an INAB Accredited calibration service for the full range of temperature controlled enclosures and is the only company in Ireland to cover the scope of -196°C to +1200°C (INAB Ref:265C).

**ELECTROCHEMISTRY INSTRUMENT CALIBRATION SERVICE:** Reagecon offers the complete Electrochemistry Calibration Service. All makes and models of pH, Conductivity and DO meters are calibrated using standards tested and certified to an ISO/IEC 17025 Test Method (INAB Ref:264T).

**GENERAL EQUIPMENT CALIBRATION SERVICE:** In addition to its INAB Accredited Calibration Services, Reagecon offers a comprehensive range of traceable services across the entire range of laboratory equipment.

For further information please contact sales@reagecon.ie
Accreditations at Reagecon

Accreditation ISO 9001:2008

• Registration number 19.2769
• Accreditation held since May 1988
• Certificate of Registration of Quality Management System covering the manufacture and
distribution of chemicals, reagents, consumables, apparatus, safety and scientific equipment. The
provision of IQ/OQ, equipment maintenance and calibration services. The provision of Vendor
Managed Inventory (VMI) services to allow customers to outsource the management and
replenishment of their consumables and equipment.

Accreditations ISO/IEC 17025 (INAB Ref:264T)

• Accredited since May 1988 for some products
• pH Buffers
• Conductivity Standards
• Analytical Volumetric Solutions
• Brix 5% - 60% wt/wt
• Refractive Index 1.33310 to 1.65812  \( \text{D} \)
• Density 0.65 - 1.034 g/ml
• Metal Standards by ICP-MS & Titrimetry
• TOC/TIC 500 µg/l to 50.0mg/l C
• Osmolality 50 - 3000 mOsm/kg H\(_2\)O

Accreditations ISO/IEC 17025 (INAB Ref:265C)

• Weighing Devices (1mg-160kg)
• Temperature (-196°C to 1200°C)
• Volume (5 µL - 10,000 µL)

Accreditations ISO Guide 34 (001RM)

• Accredited since April 2014
• Accredited Producer of Reference Materials
• Only company in Ireland with this accreditation
• Production of materials used for the calibration of scientific instruments and the validation of test methods
• ISO Guide 34 accreditations demands a set of stringent requirements that ensures all aspects of the production
of reference materials are carried out with measureable and traceable quality
• The Guide’s comprehensive requirements includes production planning, raw material selection and
characterization, assignment of certified values, uncertainty, traceability, homogeneity and stability, as well as
packaging, documentation, supply chain and logistics.
Reagecon - Vendor Managed Services Programme

In today’s market, laboratory staff are continually facing new challenges. They are trying to deliver the correct result, but also reduce overheads, meet regulatory and legal requirements, increase efficiencies and maximize the operation of their business. Continuity of supply chain, elimination of wastage/obsolescence, hazardous materials management, and the correct choice of chemicals and consumables required to run an effective and efficient Laboratory present a complex set of variables to both the Laboratory and Procurement Teams. To meet these challenges Reagecon has developed a novel and innovative Vendor Managed Inventory Model that eliminates much of the complexity, overhead and cost of laboratory operations and delivers a lower total cost of ownership to you, our customer.

This model works on the principle of service-based supply, and offers you the opportunity to:

- Lower your total cost of ownership
- Reduce direct costs through consolidation and product outsourcing
- Reduce indirect costs through the elimination of thousands of POs, invoices, physical deliveries and receipts
- Improve service levels
- Benefit from on-site instant material availability
- Eliminate stock outs
- Improve efficiencies and processes
- Minimise stock holding costs
- Reduce obsolescence
- Free up laboratory staff to focus on core high value added activities

We have successfully operated this model in many global blue chip companies over a 15 year period. We believe the model offers real value, reduces direct and indirect costs and brings peace of mind.

If you would like further information please contact; sales@reagecon.ie
The Metrologist

Reagecon has recently launched an exciting new technical publication called ‘The Metrologist’ Our objectives in presenting this publication to you are as follows:

• To help you stay up to date on legal, scientific and technology issues relating to metrology in general, but more specifically on Standards, Reference Materials and Reagents.

• To introduce you to a significant pipeline of new products that are continually emerging from our very progressive R&D department.

• To provide you with technical notes on various exciting new product families focusing on applications, features and benefits of such products, which will assist you in your scientific work on a daily basis.

• Provide you with updates on innovations, promotions and service offerings from Reagecon that will enhance our overall value proposition to you. Contained in a recent edition are details of three such initiatives:

  - The Labcal™ Stability System, a new system designed to eliminate any possibility of contamination of Standards and Reagents.

  - The introduction of new outer packaging that will provide greater protection in terms of handling, storage and shipping of high value added products. All such packaging will contain Certificates of Analysis and information to help you source other Reagecon products.

  - A series of Industry Specific Catalogues that contain Standards, Reference Materials and Reagents listed and cross referenced to the compendium method relevant to each particular industry.

• Facilitate a two-way flow of information and dialogue between Reagecon and users of our products and enable us to help our channel partners to keep you up to date with developments in metrology and give you the best service possible.

• To present valuable case studies on various aspects of metrology.

• This new journal is published in Winter, Spring and Autumn of every year.
A Unique Value Proposition for Instrument Manufacturers & OEM/Private Label Customers

Introduction

In the past couple of years Reagecon has focused very heavily on developing a new and unique value proposition for instrument manufacturers and OEM Partners. We wish to extend our market reach and growth into this very important segment.

From the perspective of an instrument manufacturer there are several compelling reasons that Standards, Reagents or Certified Reference Materials should be offered including, but not limited to, the following:

- Continuous, repeatable revenue stream over the working life of the instrument
- Ability to offer a complete, integrated package that includes Qualification (where appropriate), Validation, Service and Consumables
- Complete control over the final result achieved by the analyst including proof of the fitness for purpose of the result, its accuracy and validity
- Control and insight over service call outs, and a consequent reduction in cost of engineers time and resources
- Continuous contact with the customer over the life of the instrument, a deeper understanding of the end user requirements and the establishment of a stakeholder relationship over and above the traditional vendor/customer relationship

The Value Proposition

Using these considerations as a baseline, we have developed a value proposition that contains several unique innovations which will give you significant competitive advantage in terms of your consumable offering.

Not only that, but we have added several new innovations that, when combined, will make your own value proposition unique and give you significant advantage over your competitors. Our offering to you is described in significant detail in this document pictured above but can be presented in summary form as follows:

- Your products will be produced by a highly accredited producer. These accreditations include a cluster of physical accreditations unique in the world of metrology (INAB Ref:265C) that include:
  - Weighing Devices
  - Temperature
  - Volume

  (A full list of Reagecons accreditations is included in an expanded section later in this document.)

- Extensive and complete regulatory compliance
Extensive manufacturing capability for aqueous and non aqueous products that include:

- Batch sizes from 10ml to 6000 litres
- Products produced either using automated or manual technology
- Product packs from 0.1ml up to 1000 litres in size
- Cold chain management
- Environmental containment (including cleanroom manufacturing)
- Ex rated manufacturing and storage capability

However, our other capabilities either singly or combined make us unique as a supplier of customised liquid chemistry and include:

**The Labcal™ Standards Stability System**

Reagecon has developed a novel new packaging system designed to eliminate contamination of chemically or physically sensitive materials such as high specification analytical standards, buffers and reagents. This system is unique and applicable to pack sizes of greater than 100ml and up to one litre.

**Analyst Qualification Sets (AQS) which can be used by the instrument manufacturer to:**

- Assess the analytical competence of an analyst on a particular piece of equipment
- Lock out competitors
- Reduce service call outs
- Deliver significant and repeatable additional revenues

- Rapid prototype kit design and production
- We can design a kit and furnish you with a fully labelled prototype within 48 hours of request
- Design and produce your marketing collateral for Standards and Reagents within three (3) working days
- Offer you up to 40 Industry Specific Customised Catalogues

**From a supply chain and logistics perspective, we can offer you the following:**

- Customised options - a large range of customised products
- Flexibility - we will quote you for small annual quantities of product
- Standard freight costs - to UK, Europe, Middle East and India
- Savings - we can save you significant expense on transatlantic freight costs

For further details please email us at sales@reagecon.ie
Request for Customized Reagents

Reagecon can develop and produce a wide range of products not included in this compendium. We would be pleased to receive any enquiries you may have. When requesting information on a customised solution, please furnish the following information to us if possible.

• Pack size
• Number of packs required and how often you need the product
• Special handling, manufacturing, testing, packing, storage and shipping requirements (for example cold chain storage or cold chain shipping).
• Bill of Materials, manufacturing processes, health and safety considerations, test procedures and any other relevant information (you feel is applicable).
• Metrological Information such as accuracy, tolerances, specifications, stability etc.

Generally, if this list of information referred to above is available we can provide you with a 'Go/No Go' answer within 24 hours and a quote within the following 24 hours. Of course, if some or all of the listed information is unavailable, our Research and Development (R&D) and New Product Introduction (NPI) teams will be happy to provide any assistance within our technical capability.

The development or manufacture of customised product forms a very significant component of our overall revenue stream.

Mini Catalogues

In addition to this Chemical and Physical Standards Compendium, which is produced every 2 years, Reagecon periodically produces Industry Specific Catalogues, a selection of those currently available can be seen in this compendium.

As a service to our customers and channel Partners we frequently produce mini catalogues. These are designed to keep you up to date with our Research and Development output.

An example of such a publication can be seen in the graphic below.
Product Ranges Produced at Reagecon

- Total Organic Carbon (TOC)
- Total Inorganic Carbon (TIC)
- Volatile Organic Compound (VOC)
- Semi Volatile Organic Compound (SVOC)
- Polycyclic Aromatic Hydrocarbons
- Phenolics
- Phthalates
- Azo Dye Metabolites
- Paraffins, Isoparaffins, Aromatics, Naphthalates, Olefins, (PIANO’s)
- Oxygenates
- Thiols
- Pesticides
- Fatty Acid Methyl Esters (FAME’s)
- Fatty Acid Ethyl Esters (FAEE’s)
- Refractive Index (RI)
- Brix
- Sucrose in water
- Density
- Viscosity
- Melting Point
- ICP-MS/ICP-OES
- Atomic Absorption
- Titrants/Indicators
- Total Acid Number (TAN)
- Total Base Number (TBN)
- Hydrocarbons
- Solvent Residues
- Cryoscope
- PBBs
- PCBs
- PBDEs (Flame Retardants)

- Osmolality
- Colour
  - Saybolt
  - Hazen
  - ASTM
  - Gardner
- Turbidity
- Spectrophotometry
  - Wavelength
  - Linearity
  - Stray light
  - Band width
- pH
- Conductivity
- Ion Selective Electrode
- Ionic Strength Adjusters
- Flame Photometry
- Ion Chromatography
- Redox
- Pharmacopoeia
  - European
  - Chinese
  - United States
  - Japanese
  - Indian
- Eluents/Mobile Phases
- Dissolution Solutions
- pH Electrode Care & Maintenance

Examples of all of these product families can be viewed in detail in this compendium
Techniques & Instruments Employed

Reagecon has an extensive range of scientific instrumentation. We have at least one and in some cases several of the instruments listed.

- Gas Chromatography (GC)
  - Flame Ionisation Detection (GC-FID)
  - Mass Spectroscopy (GC-MS)
- Liquid Chromatography
  - Mass Spectroscopy (HPLC-MS)
  - Ultra Violet Detection
  - Preparative
  - Reverse Phase
- Ion Chromatography (IC)
- Flame Atomic Absorption Spectroscopy (FAAS)
- Induced Coupling Plasma-Mass Spectroscopy (ICP-MS)
- Bingham Pycnometry
- Vibrotonal Densitometer
- Refractometer
- Polarimeter
- Osmometer
- Total Organic Carbon Analysers
  - Membrane Exclusion
  - Carbon Oxidisation
- Rotational Viscometer
- Ubbelodhe Master Viscometer
- Cryoscope
- Coulometer
- Auto Titrator
- Spectrophotometer
- Fourier Transform Infrared Spectroscope (FTIR)
- Colourimeter
  - Hunter Solid/Liquid
  - Tintometer
- Volumetric Karl Fisher
- Turbidimeter
- Conductometer
- pH Meter
- Differential Scanning Calorimeter
- Chemical Oxygen Demand (COD)
- Biological Oxygen Demand Assay Unit
- Ex-rated Solvent Facility
- Radley Combinatorial Chemistry Synthesiser
- Buchi Rotary Evaporator
- Melting Point Apparatus
- TBN/TAN Titrator
- Class ISO7 (Class 10,000) Cleanroom
- Solvent Manufacturing Plant
- Spectrofluorometer
- Wave Dispersive XRF
The Reagecon Hierarchy of Standards

Traditionally, Reagecon’s manufactured products fitted into the classification of working/secondary standards. The development and production of such standards was consistent with our main technical competencies (method validation/accreditation).

Since 2011, we have escalated dramatically the range of working and secondary standards that we offer. Because of our recently developed ability to perform raw material characterization, we are now also producing primary standards and certified reference materials. In the past, the production of standards at the higher end of the value chain such as Primary Standards and Certified Reference Materials was the preserve of government funded agencies such as the National Institute of Science and Technology (NIST) in Washington, DC. Now, due to affordable technology, a number of privately funded companies have developed and are marketing primary standards and Certified Reference Materials. These companies generally have well-developed characterization, purification, and synthesis capability. Reagecon has grasped these opportunities with enthusiasm and are a leading producer of such materials.

As a producer of Metrological Standards, we are concerned with enabling the end user (analyst) to achieve an analytical result that is fit for purpose and to provide proof of the correctness of that result. These two objectives are achieved by optimizing the following:

- Accreditations
- Traceability
- Accuracy
- Precision
- Sensitivity
- Limit of Detection (LOD)
- Reproducibility
- Measurement uncertainty
- Comparability

As a Metrology Company, it is a basic requirement that we have detailed knowledge and skills in the Chemical and Biological Sciences, Physics, Statistics, and Engineering. As a manufacturer of metrological products, it is mandatory that we have skills and expertise in automation, programmable logic controllers (PLC’s), cleanroom technology, and lean (5S, Kaizen, Value Stream Mapping).

Because Metrology forms such a core component of Reagecon’s technology platform and is a key Competitive Advantage of the Company, in 2016, we established in Shannon a new Global Metrology Development Centre. The features and benefits of this centre are detailed in the next section.
Global Metrology Development Centre

From a technical perspective this centre will elevate Reagecon’s status and knowledge base in the science of Metrology, to that of a Reference Centre. Technically the Centre will offer the following advantages:

- Reduce Measurement uncertainty for pH, Conductivity, Refractive Index and Density by a full order of magnitude.
- Propel Reagecon into the Certified Reference Material space for these products.
- Increase our ability to publish more widely in the area of Metrology and participate in collaborative studies with research Metrology Institutions.
- Increase accuracy, precision, reproducibility and other metrological parameters for pH, Conductivity Refractive Index and Density initially, then followed by Viscosity, Colour and Osmolality.

From a marketing, image and perception value the Global Metrology Centre will yield significant customer impact. The tangible benefits in terms of outputs include, but are not limited to the following:

- Provide a training facility for 300 international distributors on Metrology
- Provide a training facility for 1,000 Irish customers on new products
- Provide a training facility for our 25 Business Development staff on new products.
- Provide an area for upskilling existing staff
- Provide an area for collaboration and research with National Metrology and National Reference Centres worldwide
- Establish Reagecon as a global Metrology Centre of excellence in the Science of Metrology
- Facilitate the rapid development of Certified Reference Materials in all four sciences of pH, Conductivity, Refractive Index and Density
- Form a platform for adding other Primary Reference Methods in areas such as Viscosity, Colour and Osmolality

The graphic below shows some of the equipment that has been commissioned and is being used in our Metrology Centre.
Industry Specific Catalogues

Reagecon has developed several Industry Specific Catalogues and at the time of writing (May 2016), we have 37 such catalogues on offer. These catalogues allow you to pick the required compendium method and locate all of the standards and reagents required to perform your analysis. No other catalogue from any supplier offers this unique functionality. These catalogues can also be viewed at www.reagecon.com. Using these Industry Specific Catalogues will allow easy and simple selection of certified standards, control solutions and necessary reagents all from one source, reducing vendors, saving time, maximising spend and delivering genuine value.

Petrochemistry

- Asphalt
- Biofuels
- Coke
- Fuel Oil
- Lubricating Oils
- Gasoline
- Greases
- Kerosene
- Naphtha
- Other Petroleums
- Waxes

Food

- Cereals
- Coffee & Tea
- Dairy
- Vegetables
- Oils & Fats
- Flavours & Fragrances
- Fruits
- Ingredients
- Meat & Fish
- Sugars

Agriculture

- Animal Feeds
- Fertilizers
- Plants
- Soil

Beverages

- Beer
- Nonalcoholic Beverages & Concentrates
- Spirits
- Wine
Pharmaceutical

- Cosmetics
- Chinese Pharmacopoeia
- European Pharmacopoeia
- Japanese Pharmacopoeia
- United States Pharmacopoeia
- Indian Pharmacopoeia

Industrial Manufacturing

- TAPPI

Environmental & Water

- APHA, AWWA, WEF Standard Methods

Pulp & Paper

Textiles
These products are prepared gravimetrically on a weight/volume basis. Both solute and solvent are prepared using equipment calibrated by Reagecon engineers. Reagecon holds IEC/ISO 17025 accreditation for calibration of laboratory balances and pipettes (INAB Ref:265C). The resulting equipment Calibration Certificates are issued in accordance with the requirements of ISO/IEC 17025. The results are then reported and certified in µg/ml on the basis of weight and the density measurement of the standard. Reagecon is IEC/ISO 17025 (INAB Ref:264T) Accredited for density measurement using an Oscillating U-Tube Method in accordance with the ASTM D4052 method. The concentration of each standard is verified using a high performance calibrated Gas Chromatograph - Mass Spectrometer (GC-MS Instrument). The calibration of the GC-MS instrument is completed using high purity ISO Guide 34 accredited VOC standards similar in VOC concentration value to these products. The mass spectrum of each of the analytes is confirmed by comparison with the National Institute of Standards and Technology (NIST) mass spectral library.
## Volatile Organic Compounds (VOCs) Mixed Standards

<table>
<thead>
<tr>
<th>Description</th>
<th>US EPA Methods</th>
<th>Pack in Ampoule</th>
<th>2,000µg/ml in Purge &amp; Trap Methanol</th>
<th>200µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1-Dichlorethene (dichloroethylene)</td>
<td>502.2</td>
<td>1ml</td>
<td>REVOCC001 (54 compound mix)</td>
<td>REVOCC002 (54 compound mix)</td>
</tr>
<tr>
<td>trans-1,2-Dichloroethene</td>
<td>524.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dichloromethane (methylene chloride)</td>
<td>8021</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1-Dichloroethylene</td>
<td>8021A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-1,2-Dichloroethene</td>
<td>8021B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,2-Dichloropropane</td>
<td>8260B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bromochloromethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloroform</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1-Dichloropropene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Tetrachloride</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Dichloropropane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dibromomethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bromodichloromethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>trans-1,3-Dichloropropene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-1,3-Dichloropropene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Dichloropropane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetrachloroethene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dibromochloromethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dibromoethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,2-Tetrachloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>m-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>p-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>o-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Styrene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bromoform</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,3-Trichloropropene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bromobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Propylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Chlorotoluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Chlorotoluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tert-Butylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3,5-Trimethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>sec-Butylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Dichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Isopropyltoluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Dichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Butylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Dibromo-3-chloropropane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,3-Trichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexachlorobutadiene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naphthalene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4-Trichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,2-Trichloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>US EPA Methods</td>
<td>Pack in Ampoule</td>
<td>2,000µg/ml in Purge &amp; Trap Methanol</td>
<td>200µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>-------------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Bromoform</td>
<td>502.2</td>
<td>1ml</td>
<td>REVOC003</td>
<td>REVOC004</td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td>524.2</td>
<td>1ml</td>
<td>REVOC005</td>
<td>REVOC006</td>
</tr>
<tr>
<td>Carbon Tetrachloride</td>
<td>8021</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloroform</td>
<td>8021A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dibromochloromethane</td>
<td>8021B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1-Dichloroethane</td>
<td>624</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
<td>8240B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1-Dichlorethene</td>
<td>8260B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>trans-1,2-Dichloroethene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Dichloropropane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dichloromethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetrachloroethene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,2-Trichloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trichloroethene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bromobenzene</td>
<td>502.2</td>
<td>1ml</td>
<td>REVOC005</td>
<td>REVOC006</td>
</tr>
<tr>
<td>Bromochloromethane</td>
<td>524.2</td>
<td>1ml</td>
<td>REVOC005</td>
<td>REVOC006</td>
</tr>
<tr>
<td>Bromodichloromethane</td>
<td>8021</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Butylbenzene</td>
<td>8021A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Chlorotoluene</td>
<td>8021B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Chlorotoluene</td>
<td>8260B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dibromoethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Dichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Dichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-1,2-Dichloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Dichloropropane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1-Dichloropropene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-1,3-Dichloropropene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>trans-1,3-Dichloropropene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Styrene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,1,2-Tetrachloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,3-Trichloropropane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>p-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td>502.2</td>
<td>1ml</td>
<td>REVOC007</td>
<td>REVOC008</td>
</tr>
<tr>
<td>sec-Butylbenzene</td>
<td>524.2</td>
<td>1ml</td>
<td>REVOC007</td>
<td>REVOC008</td>
</tr>
<tr>
<td>tert-Butylbenzene</td>
<td>8021</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Dibromo-3-chloropropane</td>
<td>8021A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
<td>8021B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,2-Dichloropropene</td>
<td>8260B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexachlorobutadiene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Isopropyltoluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naphthalene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Propylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,3-Trichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4-Trichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3,5-Trimethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>o-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>m-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>US EPA Methods</td>
<td>Pack in Ampoule</td>
<td>2,000µg/ml in Purge &amp; Trap Methanol</td>
<td>200µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>----------------</td>
<td>----------------</td>
<td>-------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>Bromodichloromethane</td>
<td>501</td>
<td>1ml</td>
<td>REVOC009 (4 compound mix)</td>
<td>REVOC010 (4 compound mix)</td>
</tr>
<tr>
<td>Bromoform</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloroform</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dibromochloromethane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td>602</td>
<td>1 ml</td>
<td>REVOC018 (7 compound mix)</td>
<td>REVOC019 (7 compound mix)</td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Dichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Dichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td>602</td>
<td>1ml</td>
<td>REVOC020 (6 compound mix for BTEX)</td>
<td>REVOC021 (6 compound mix for BTEX)</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>m-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>p-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>o-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Volatile Organic Compounds (VOCs) Mixed Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description - Each at 2,000µg/ml in Purge &amp; Trap Methanol</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC011</td>
<td>Bromochloromethane</td>
<td>502.2</td>
<td>1ml</td>
</tr>
<tr>
<td>(9 compound mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bromoform</td>
<td>524.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carbon Tetrachloride</td>
<td>8021</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chloroform</td>
<td>8021A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibromomethane</td>
<td>8021B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1-Dichloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,2-Dichloropropane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tetrachloroethene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1,1-Trichloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REVOC012</td>
<td>1,2-Dibromo-3-chloropropene</td>
<td>502.2</td>
<td>1ml</td>
</tr>
<tr>
<td>(16 compound mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibromomethane</td>
<td>524.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2-Dichloroethane</td>
<td>8021</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2-Dichloropropane</td>
<td>8021A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3-Dichloropropane</td>
<td>8021B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1-Dichloropropene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>trans-1,3-Dichloropropene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>cis-1,3-Dichloropropene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorobutadiene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1,1,2-Tetrachloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1,2,2-Tetrachloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1,2-Trichloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trichloroethene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,3-Trichloropropane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trimethylbenzene</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Volatile Organic Compounds (VOCs) Mixed Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description - Each at 2,000µg/ml in Purge &amp; Trap Methanol</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVO013 (12 compound mix)</td>
<td>Benzene</td>
<td>502.2</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Bromobenzene</td>
<td>524.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>n-Butylbenzene</td>
<td>8021</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td>8021A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Isopropyltoluene</td>
<td>8021B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Styrene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,3-Trichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3,5-Trimethylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trimethylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REVO014 (12 compound mix)</td>
<td>sec-Butylbenzene</td>
<td>502.2</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>tert-Butylbenzene</td>
<td>524.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorobenzene</td>
<td>8021</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Chlorotoluene</td>
<td>8021A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chlorotoluene</td>
<td>8021B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,4-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Isopropylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>n-Propylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>o-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>p-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REVO015 (28 compound mix)</td>
<td>1,2,4-Trimethylbenzene</td>
<td>503.1</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>1,2-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3,5-Trimethylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,4-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Chlorotoluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bromobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>n-Butylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>tert-Butylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>sec-Butylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chlorotoluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorobutadiene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Isopropylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Isopropyltoluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>n-Propylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Styrene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tetrachloroethene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,3-Trichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trichloroethene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>p-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>o-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description - Each at 2,000µg/ml in Purge &amp; Trap Methanol</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------------------------------------------------</td>
<td>----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REVOC016</td>
<td>1,2-Dibromo-3-chloropropane</td>
<td>504</td>
<td>1ml</td>
</tr>
<tr>
<td>(2 compound mix)</td>
<td>Dibromoethane</td>
<td>8011</td>
<td></td>
</tr>
<tr>
<td>REVOC017</td>
<td>1,2-Dibromo-3-chloropropane</td>
<td>504.1</td>
<td>1ml</td>
</tr>
<tr>
<td>(3 compound mix)</td>
<td>Dibromoethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,3-Trichloropropane</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REVOC022</td>
<td>Benzene</td>
<td>8020</td>
<td>1ml</td>
</tr>
<tr>
<td>(10 compound mix)</td>
<td>Chlorobenzene</td>
<td>8020A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,4-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>p-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>o-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description - Each at 2,000µg/ml in Purge &amp; Trap Methanol</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>REVOC023 (53 compound mix)</td>
<td>1,1-Dichlorethene (dichloroethylene)</td>
<td>8021</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Dichloromethane (methylene chloride)</td>
<td>8021A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>trans-1,2-Dichloroethene</td>
<td>8021B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1-Dichloroethane</td>
<td>8260B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>cis-1,2-Dichloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,2-Dichloropropane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chloroform</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1,1-Trichloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1-Dichloropropene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carbon Tetrachloride</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2-Dichloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trichloroethene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2-Dichloropropane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibromomethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bromodichloromethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>trans-1,3-Dichloropropene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>cis-1,3-Dichloropropene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3-Dichloropropene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tetrachloroethene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibromochloromethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibromoethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1,1,2-Tetra chloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>p-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>o-Xylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Styrene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bromoform</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Isopropylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1,2,2-Tetrachloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,3-Trichloropropene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bromobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>n-Propylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Chlorotoluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trimethylbenzene, 4-Chlorotoluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>tert-Butylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3,5-Trimethylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>sec-Butylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Isopropyltoluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,4-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2-Dichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>n-Butylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2-Dibromo-3-chloropropane</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,3-Trichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorobutadiene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trichlorobenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,1,2-Trichloroethane</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No. Pack in 1ml Ampoule</td>
<td>Description - Each at 200µg/ml in Purge &amp; Trap Methanol</td>
<td>Product No. Pack in 1ml Ampoule</td>
<td>Description - Each at 1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----------------------------------------------------------</td>
<td>--------------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>REVOC0025 (20 compound mix)</td>
<td>1,1,1-Trichloroethane</td>
<td>REVOC0026 (18 compound mix)</td>
<td>1,2,3-Trichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,1-Dichloroethene (dichloroethylene)</td>
<td></td>
<td>1,2,4-Trichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,1-Dichloroethane</td>
<td></td>
<td>1,2-Dichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,2-Dichlorobenzene</td>
<td></td>
<td>1,3-Dichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,2-Dichloroethane</td>
<td></td>
<td>1,4-Dichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,3-Dichlorobenzene</td>
<td></td>
<td>Benzene</td>
</tr>
<tr>
<td></td>
<td>1,4-Dichlorobenzene</td>
<td></td>
<td>Bromodichloromethane</td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td></td>
<td>Bromoform</td>
</tr>
<tr>
<td></td>
<td>Bromodichloromethane</td>
<td></td>
<td>Carbon Tetrachloride</td>
</tr>
<tr>
<td></td>
<td>Bromoform</td>
<td></td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td>Carbon Tetrachloride</td>
<td></td>
<td>Dibromochloromethane</td>
</tr>
<tr>
<td></td>
<td>Chlorobenzene</td>
<td></td>
<td>Ethylbenzene</td>
</tr>
<tr>
<td></td>
<td>Chloroform</td>
<td></td>
<td>Isopropylbenzene</td>
</tr>
<tr>
<td></td>
<td>Dibromochloromethane</td>
<td></td>
<td>m-Xylene</td>
</tr>
<tr>
<td></td>
<td>Dichloromethane (methylene chloride)</td>
<td></td>
<td>o-Xylene</td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td></td>
<td>p-Xylene</td>
</tr>
<tr>
<td></td>
<td>Styrene</td>
<td></td>
<td>Styrene</td>
</tr>
<tr>
<td></td>
<td>Tetrachloroethene</td>
<td></td>
<td>Toluene</td>
</tr>
<tr>
<td></td>
<td>Trichloroethene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REVOC0028 (13 compound mix)</td>
<td>1,2,3-Trichlorobenzene</td>
<td>REVOC0030 (12 compound mix)</td>
<td>1,2-Dichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trichlorobenzene</td>
<td></td>
<td>1,3-Dichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trimethylbenzene</td>
<td></td>
<td>1,4-Dichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,3,5-Trimethylbenzene</td>
<td></td>
<td>2-Chlorotoluene</td>
</tr>
<tr>
<td></td>
<td>4-Isopropyltoluene</td>
<td></td>
<td>4-Chlorotoluene</td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td></td>
<td>Chlorobenzene</td>
</tr>
<tr>
<td></td>
<td>Bromobenzene</td>
<td></td>
<td>Isopropylbenzene</td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td></td>
<td>m-Xylene</td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td></td>
<td>o-Xylene</td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td>p-Xylene</td>
</tr>
<tr>
<td></td>
<td>n-Butylbenzene</td>
<td></td>
<td>sec-Butylbenzene</td>
</tr>
<tr>
<td></td>
<td>Styrene</td>
<td></td>
<td>tert-Butylbenzene</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REVOC0031 (12 compound mix)</td>
<td>1,2,3-Trichlorobenzene</td>
<td>REVOC0033 (11 compound mix)</td>
<td>1,2-Dichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trichlorobenzene</td>
<td></td>
<td>1,3-Dichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trimethylbenzene</td>
<td></td>
<td>1,4-Dichlorobenzene</td>
</tr>
<tr>
<td></td>
<td>1,3,5-Trimethylbenzene</td>
<td></td>
<td>2-Chlorotoluene</td>
</tr>
<tr>
<td></td>
<td>4-Isopropyltoluene</td>
<td></td>
<td>4-Chlorotoluene</td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td></td>
<td>Chlorobenzene</td>
</tr>
<tr>
<td></td>
<td>Bromobenzene</td>
<td></td>
<td>Isopropylbenzene</td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td></td>
<td>m-Xylene</td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td>o-Xylene</td>
</tr>
<tr>
<td></td>
<td>n-Butylbenzene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Styrene</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Pack in 1ml Ampoule</td>
<td>Description - Each at 40µg/ml in Purge &amp; Trap Methanol</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>----------------------</td>
<td>-------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>REVOC0034</td>
<td>(10 compound mix)</td>
<td>1,1,2,2-Tetrachloroethane</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1,2-Trichloroethane</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1-Dichloroethene (dichloroethylene)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,3-Trichloropropene</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2-Dichloroethane</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2-Dichloropropane</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chloroform</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hexachlorobutadiene</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trichloroethene</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Pack in 1ml Ampoule</th>
<th>Description - Each at 200µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0035</td>
<td>(10 compound mix)</td>
<td>1,1,1-Trichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1-Dichloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromodichloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromoform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carbon Tetrachloride</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dibromochloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dichloromethane (methylene chloride)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trichloroethene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Pack in 1ml Ampoule</th>
<th>Description - Each at 20000µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0036</td>
<td>(9 compound mix)</td>
<td>1,1,1-Trichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1-Dichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,2-Dichloropropane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromodichloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromoform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carbon Tetrachloride</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dibromochloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trichloroethene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Pack in 1ml Ampoule</th>
<th>Description - Each at 1000µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0037</td>
<td>(9 compound mix)</td>
<td>Benzene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carbon Tetrachloride</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>m-Xylene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>o-Xylene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>p-Xylene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toluene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trichloroethene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Pack in 1ml Ampoule</th>
<th>Description - Each at 100µg/ml in Methylene Chloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0038</td>
<td>(9 compound mix)</td>
<td>1,1,1-Trichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromodichloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromoform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carbon Tetrachloride</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dibromochloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dichloromethane (methylene chloride)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toluene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Pack in 1ml Ampoule</th>
<th>Description - Each at 100µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0039</td>
<td>(5 compound mix)</td>
<td>Bromoform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carbon Tetrachloride</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trichloroethene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Pack in 1ml Ampoule</th>
<th>Description - Each at 40µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0040</td>
<td>(3 compound mix)</td>
<td>1,1,1-Trichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1-Dichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>trans-1,2-Dichloroethene</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Product No.</th>
<th>Pack in 1ml Ampoule</th>
<th>Description - Each at 100µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0041</td>
<td>(8 compound mix)</td>
<td>Benzene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1-Dichloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromodichloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromoform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carbon Tetrachloride</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dibromochloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dichloromethane (methylene chloride)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trichloroethene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Pack in 1ml Ampoule</th>
<th>Description - Each at 100µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0042</td>
<td>(5 compound mix)</td>
<td>1,1,1-Trichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromodichloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromoform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carbon Tetrachloride</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dibromochloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dichloromethane (methylene chloride)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trichloroethene</td>
</tr>
<tr>
<td>Product No.</td>
<td>Pack in 1ml Ampoule</td>
<td>Description - Each at 2µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------</td>
<td>------------------------------------------------------</td>
</tr>
<tr>
<td>REVOC0047</td>
<td>(3 compound mix)</td>
<td>1,1-Dichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2-Dichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dichloromethane (methylene chloride)</td>
</tr>
<tr>
<td>REVOC0049</td>
<td>(2 compound mix)</td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REVOC0052</td>
<td>(2 compound mix)</td>
<td>Benzene</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No. Pack in 1ml Ampoule</td>
<td>Description - Each in Acetone</td>
<td>Concentration µg/ml</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>REVOC0032 (12 compound mix)</td>
<td>1,2-Dichloroethane</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td>12000</td>
</tr>
<tr>
<td></td>
<td>Carbon Tetrachloride</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td>Chlorobenzene</td>
<td>8000</td>
</tr>
<tr>
<td></td>
<td>Chloroform</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td>8000</td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td>12000</td>
</tr>
<tr>
<td></td>
<td>o-Xylene</td>
<td>12000</td>
</tr>
<tr>
<td></td>
<td>p-Xylene</td>
<td>12000</td>
</tr>
<tr>
<td></td>
<td>Tetrachloroethene</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>12000</td>
</tr>
<tr>
<td></td>
<td>Trichloroethene</td>
<td>4000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Pack in 1ml Ampoule</th>
<th>Description - Each in Purge &amp; Trap Methanol</th>
<th>Concentration µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0039 (9 compound mix)</td>
<td>1,2-Dichloroethane</td>
<td>3000</td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Chlorobenzene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>o-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>p-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Styrene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>1000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Pack in 1ml Ampoule</th>
<th>Description - Each in Purge &amp; Trap Methanol</th>
<th>Concentration µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0040 (9 compound mix)</td>
<td>1,1,1-Trichloroethane</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>1,2-Dichloroethane</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Bromodichloromethane</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Bromoform</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Carbon Tetrachloride</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Chloroform</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Dibromochloromethane</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Tetrachloroethene</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Trichloroethene</td>
<td>50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Pack in 1ml Ampoule</th>
<th>Description - Each in Purge &amp; Trap Methanol</th>
<th>Concentration µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0041 (8 compound mix)</td>
<td>1,2-Dichloroethane</td>
<td>3000</td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>o-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>p-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Styrene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>1000</td>
</tr>
<tr>
<td>Product No.</td>
<td>Pack in 1ml Ampoule</td>
<td>Description - Each in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>REVOC0044</td>
<td>(5 compound mix)</td>
<td>1,1-Dichloroethane                         <img src="https://via.placeholder.com/15" alt="" /></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,3-Trichloropropane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromochloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Propylbenzene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>sec-Butylbenzene</td>
</tr>
<tr>
<td>REVOCC0045</td>
<td>(5 compound mix)</td>
<td>1,1-Dichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,3-Trichloropropane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromochloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Propylbenzene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>sec-Butylbenzene</td>
</tr>
<tr>
<td>REVOC0054</td>
<td>(9 compound mix)</td>
<td>1,2,3-Trichlorobenzene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,4-Trichlorobenzene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Styrene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethylbenzene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toluene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>o-Xylene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>m-Xylene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>p-Xylene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Naphthalene</td>
</tr>
<tr>
<td>REVOC0056</td>
<td>(4 compound mix)</td>
<td>Trichloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2-Dichloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Benzene</td>
</tr>
<tr>
<td>REVOC0058</td>
<td>(8 compound mix)</td>
<td>Chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromodichloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dibromochloromethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bromofom</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2-Dichloroethane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trichloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloroethene</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tetrachloromethane</td>
</tr>
<tr>
<td>Product No. Pack in 1ml Ampoule</td>
<td>Description - Each in Purge &amp; Trap Methanol</td>
<td>Concentration µg/ml</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td><strong>REVO0183</strong>&lt;br&gt;(14 compound mix)</td>
<td>1,1-Dichloroethylene&lt;br&gt;Methylene chloride&lt;br&gt;trans-1,2-Dichloroethylene&lt;br&gt;Cis-1,2-Dichloroethylene&lt;br&gt;Chloroform&lt;br&gt;Carbon Tetrachloride&lt;br&gt;1,2-Dichloroethane&lt;br&gt;Trichloroethylene&lt;br&gt;Bromodichloromethane&lt;br&gt;Tetrachloroethylene&lt;br&gt;Dibromochloromethane&lt;br&gt;Bromoform&lt;br&gt;Hexachlorobutadiene</td>
<td>500&lt;br&gt;2000&lt;br&gt;2000&lt;br&gt;2000&lt;br&gt;20&lt;br&gt;20&lt;br&gt;2000&lt;br&gt;20&lt;br&gt;20&lt;br&gt;20&lt;br&gt;100&lt;br&gt;100&lt;br&gt;20</td>
</tr>
<tr>
<td><strong>REVO0184</strong>&lt;br&gt;(2 compound mix)</td>
<td>Methyl mercury chloride&lt;br&gt;Ethyl mercury chloride</td>
<td>1000&lt;br&gt;1000</td>
</tr>
<tr>
<td><strong>REVO0185</strong>&lt;br&gt;(12 compound mix)</td>
<td>Chlorobenzene&lt;br&gt;1,2,4-Trichlorobenzene&lt;br&gt;1,2,3-Trichlorobenzene&lt;br&gt;1,3,5-Trichlorobenzene&lt;br&gt;1,2,3,4-Tetrachlorobenzene&lt;br&gt;1,2,3,5-Tetrachlorobenzene&lt;br&gt;1,2-Dichlorobenzene&lt;br&gt;1,3-Dichlorobenzene&lt;br&gt;1,4-Dichlorobenzene&lt;br&gt;Hexachlorobenzene&lt;br&gt;Pentachlorobenzene&lt;br&gt;1,2,4,5-tetrachlorobenzene</td>
<td>100000&lt;br&gt;200&lt;br&gt;200&lt;br&gt;200&lt;br&gt;50&lt;br&gt;50&lt;br&gt;50&lt;br&gt;1000&lt;br&gt;1000&lt;br&gt;1000&lt;br&gt;20&lt;br&gt;20&lt;br&gt;50</td>
</tr>
<tr>
<td>Product No. Pack in 1ml Ampoule</td>
<td>Description - Each in Purge &amp; Trap Methanol</td>
<td>Concentration µg/ml</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>REVOC0186 (16 compound mix)</td>
<td>Dimethyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Diethyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Diisobutyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Dibutyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Di(methoxyethyl) phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Butyl methyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Bis(2-ethoxyethyl) phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Dipentyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Di-n-hexyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Benzyl butyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Bis(2-n-butoxyethyl) phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Dicyclohexyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Di(2-ethylhexyl) phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Diphenyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Di-n-octyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Dinonyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td>REVOC042 (6 compound mix)</td>
<td>Benzene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>o-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>p-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td>1000</td>
</tr>
<tr>
<td>REVOC043 (8 compound mix)</td>
<td>Chloroform</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Bromodichloromethane</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Dibromochloromethane</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Bromoform</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>1,2-Dichloroethane</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Tetrachloromethane</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Trichloroethene</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Tetrachloroethene</td>
<td>50</td>
</tr>
<tr>
<td>REVOC046 (7 compound mix)</td>
<td>Hexachloro-1,3-butadiene</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Tetrachloroethylene</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Trichloroethylene</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Trichloromethane</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Tetrachloromethane</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Dichloromethane</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>1,2-Dichloroethane</td>
<td>100</td>
</tr>
<tr>
<td>Product No. Pack in 1ml Ampoule</td>
<td>Description - Each in Purge &amp; Trap Methanol</td>
<td>Concentration µg/ml</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>REVOC059 (2 compound mix)</td>
<td>Acrolein</td>
<td>20000</td>
</tr>
<tr>
<td></td>
<td>Acrylonitrile</td>
<td>20000</td>
</tr>
<tr>
<td>REVOC200 (18 compound mix)</td>
<td>Methanol</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Ethanol</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Acetone</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Isopropyl alcohol</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Dichloromethane</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Hexane</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Methyl ethyl ketone</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Ethyl acetate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Cloroform</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>1,4-Dioxane</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Methyl isobutyl ketone</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Dimethylformamide</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Chlorobenzene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>o-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td>1000</td>
</tr>
<tr>
<td>RESVOC215 (16 compound mix)</td>
<td>Phthalic acid, bis-2-ethylhexylester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, benzylbutyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-butyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-iso-butyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-C6-C8-branched alkyl esters C7-rich</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-methylglycol ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-n-pentyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-iso-pentyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-1-octyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Diisodecyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Diisononyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-hexyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>1,2-Benzenedicarboxylic acic dipentyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>1,2-Benzenedicarboxylic acid, di-C7-11</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Isopentyl Pentyl Phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>1,2-Benzenedicarboxylic acid, dihexyl ester</td>
<td>1000</td>
</tr>
<tr>
<td>Product No. Pack in 5 x 1ml Ampoule</td>
<td>Description - Each in Purge &amp; Trap Methanol</td>
<td>Concentration µg/ml</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>RESVOC215A (16 compound mix)</td>
<td>Phthalic acid, bis-2-ethylhexylester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, benzylbutyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-butyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-iso-butyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-C6-C8-branched alkyl esters C7-rich</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-methylglycol ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-n-pentyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-iso-pentyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-1-octyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Diisodecyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Diisononyl phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Phthalic acid, bis-hexyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>1,2-Benzenedicarboxylic acic dipentyl ester</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>1,2-Benzenedicarboxylic acid, di-C7-11</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Isopentyl Pentyl Phthalate</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>1,2-Benzenedicarboxylic acid, dihexyl ester</td>
<td>1000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Pack in 1ml Ampoule</th>
<th>Description - Each at 2000µg/ml in Purge &amp; Trap Methanol</th>
<th>US EPA Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVOC0027 (13 compound mix)</td>
<td>1,2,3-Trichlorobenzene</td>
<td>502</td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trichlorobenzene</td>
<td>524</td>
</tr>
<tr>
<td></td>
<td>1,2,4-Trimethylbenzene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,3,5-Trimethylbenzene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Isopropyltoluene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bromobenzene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>m-Xylene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>n-Butylbenzene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Styrene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>REVO101</td>
<td>1,1-Dichlorethene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO101N</td>
<td>1,1-Dichlorethene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO102</td>
<td>Dichloromethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO102N</td>
<td>Dichloromethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO103</td>
<td>trans-1,2-Dichloroethene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO103N</td>
<td>trans-1,2-Dichloroethene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO104</td>
<td>1,1-Dichloroethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO104N</td>
<td>1,1-Dichloroethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO105</td>
<td>cis-1,2-Dichloroethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO105N</td>
<td>cis-1,2-Dichloroethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO106</td>
<td>2,2-Dichloropropane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO106N</td>
<td>2,2-Dichloropropane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO107</td>
<td>Bromochloromethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO107N</td>
<td>Bromochloromethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO108</td>
<td>Chloroform</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO108N</td>
<td>Chloroform</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO109</td>
<td>1,1,1-Trichloroethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO109N</td>
<td>1,1,1-Trichloroethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO110</td>
<td>1,1-Dichloropropene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO110N</td>
<td>1,1-Dichloropropene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO111</td>
<td>Carbon Tetrachloride</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVO111N</td>
<td>Carbon Tetrachloride</td>
<td>Neat</td>
</tr>
<tr>
<td>REVO112</td>
<td>1,2-Dichloroethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>REVOC112N</td>
<td>1,2-Dichloroethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC113</td>
<td>Benzene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC113N</td>
<td>Benzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC114</td>
<td>Trichloroethene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC114N</td>
<td>Trichloroethene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC115</td>
<td>1,2-Dichloropropane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC115N</td>
<td>1,2-Dichloropropane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC116</td>
<td>Dibromomethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC116N</td>
<td>Dibromomethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC117</td>
<td>Bromodichloromethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC117N</td>
<td>Bromodichloromethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC118</td>
<td>trans-1,3-Dichloropropene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC118N</td>
<td>trans-1,3-Dichloropropene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC119</td>
<td>Toluene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC119N</td>
<td>Toluene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC120</td>
<td>cis-1,3-Dichloropropene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC120N</td>
<td>cis-1,3-Dichloropropene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC121</td>
<td>1,3-Dichloropropane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC121N</td>
<td>1,3-Dichloropropane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC122</td>
<td>Tetrachloroethene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC122N</td>
<td>Tetrachloroethene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC123</td>
<td>Dibromochloromethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC123N</td>
<td>Dibromochloromethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC124</td>
<td>Dibromoethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>REVOC124N</td>
<td>Dibromoethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC125</td>
<td>Chlorobenzene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC125N</td>
<td>Chlorobenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC126</td>
<td>1,1,2-Tetrachloroethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC126N</td>
<td>1,1,2-Tetrachloroethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC127</td>
<td>Ethylbenzene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC127N</td>
<td>Ethylbenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC128</td>
<td>m-Xylene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC128N</td>
<td>m-Xylene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC129</td>
<td>p-Xylene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC129N</td>
<td>p-Xylene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC130</td>
<td>o-Xylene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC130N</td>
<td>o-Xylene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC131</td>
<td>Styrene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC131N</td>
<td>Styrene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC132</td>
<td>Bromoform</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC132N</td>
<td>Bromoform</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC133</td>
<td>Isopropylbenzene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC133N</td>
<td>Isopropylbenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC134</td>
<td>1,1,2-Tetrachloroethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC134N</td>
<td>1,1,2-Tetrachloroethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC135</td>
<td>1,2,3-Trichloropropane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC135N</td>
<td>1,2,3-Trichloropropane</td>
<td>Neat</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>REVOC136</td>
<td>Bromobenzene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC136N</td>
<td>Bromobenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC137</td>
<td>n-Propylbenzene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC137N</td>
<td>n-Propylbenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC138</td>
<td>2-Chlorotoluene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC138N</td>
<td>2-Chlorotoluene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC139</td>
<td>1,2,4-Trimethylbenzene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC139N</td>
<td>1,2,4-Trimethylbenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC140</td>
<td>4-Chlorotoluene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC140N</td>
<td>4-Chlorotoluene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC141</td>
<td>tert-Butylbenzene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC141N</td>
<td>tert-Butylbenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC142</td>
<td>1,3,5-Trimethylbenzene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC142N</td>
<td>1,3,5-Trimethylbenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC143</td>
<td>sec-Butylbenzene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC143N</td>
<td>sec-Butylbenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC144</td>
<td>1,3-Dichlorobenzene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC144N</td>
<td>1,3-Dichlorobenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC145</td>
<td>4-Isopropyltoluene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC145N</td>
<td>4-Isopropyltoluene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC146</td>
<td>1,4-Dichlorobenzene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC146N</td>
<td>1,4-Dichlorobenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC147</td>
<td>1,2-Dichlorobenzene</td>
<td>2,000 µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC147N</td>
<td>1,2-Dichlorobenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>REVOC148</td>
<td>n-Butylbenzene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC148N</td>
<td>n-Butylbenzene Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC149</td>
<td>1,2-Dibromo-3-chloropropane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC149N</td>
<td>1,2-Dibromo-3-chloropropane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC150</td>
<td>1,2,3-Trichlorobenzene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC150N</td>
<td>1,2,3-Trichlorobenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC151</td>
<td>Hexachlorobutadiene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC151N</td>
<td>Hexachlorobutadiene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC152</td>
<td>Naphthalene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC152N</td>
<td>Naphthalene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC153</td>
<td>1,2,4-Trichlorobenzene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC153N</td>
<td>1,2,4-Trichlorobenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC154</td>
<td>1,1,2-Trichloroethane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC154N</td>
<td>1,1,2-Trichloroethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC159</td>
<td>Vinyl Chloride</td>
<td>20µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC159N</td>
<td>Vinyl Chloride</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC163</td>
<td>Ethyl Mercaptan</td>
<td>1,000µg/ml in Toluene</td>
</tr>
<tr>
<td>REVOC163N</td>
<td>Ethyl Mercaptan</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC165</td>
<td>Vinyl Chloride</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC166</td>
<td>Acetonitrile</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC166N</td>
<td>Acetonitrile</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC168</td>
<td>Cyclohexane</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC168N</td>
<td>Cyclohexane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC175</td>
<td>Methyl Mercaptan</td>
<td>1,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC175N</td>
<td>Methyl Mercaptan</td>
<td>Neat</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>REVOC176</td>
<td>Tetrahydrofuran</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC176N</td>
<td>Tetrahydrofuran</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC181</td>
<td>Chloroprene</td>
<td>1,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC181N</td>
<td>Chloroprene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC182</td>
<td>1,3-Butadiene</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC182N</td>
<td>1,3-Butadiene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC183</td>
<td>Ethylene Oxide</td>
<td>10,000µg/L in Dimethyl Sulfoxide</td>
</tr>
<tr>
<td>REVOC183N</td>
<td>Ethylene Oxide</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC184</td>
<td>1,2-Dichlorobenzene</td>
<td>1,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC185</td>
<td>1,4-Dichlorobenzene</td>
<td>100µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC186</td>
<td>1,3,5-Trimethylbenzene</td>
<td>5,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC187</td>
<td>Trimethylamine</td>
<td>100µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC187N</td>
<td>Trimethylamine</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC188</td>
<td>Pyridine</td>
<td>1,000µg/L in Methylene Chloride</td>
</tr>
<tr>
<td>REVOC188N</td>
<td>Pyridine</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC189</td>
<td>Turpentine</td>
<td>2,000µg/ml in Purge and Trap Methanol</td>
</tr>
<tr>
<td>REVOC189N</td>
<td>Turpentine</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC300</td>
<td>1,2,3,4-Diepoxybutane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC300N</td>
<td>1,2,3,4-Diepoxybutane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC301</td>
<td>1,2,3,4-Diepoxybutane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC302</td>
<td>1,4-Dioxane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC302N</td>
<td>1,4-Dioxane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC303</td>
<td>1,4-Dioxane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC304</td>
<td>1-Propanol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC304N</td>
<td>1-Propanol</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC305</td>
<td>1-Propanol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>REVOC306</td>
<td>2-Butanone (MEK)</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC306N</td>
<td>2-Butanone (MEK) Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC307</td>
<td>2-Butanone (MEK)</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC308</td>
<td>2-Chloroethanol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC308N</td>
<td>2-Chloroethanol Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC309</td>
<td>2-Chloroethanol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC310</td>
<td>2-Chloroethyl vinyl ether</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC310N</td>
<td>2-Chloroethyl vinyl ether Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC311</td>
<td>2-Chloroethyl vinyl ether</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC312</td>
<td>2-Hexanone</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC312N</td>
<td>2-Hexanone</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC313</td>
<td>2-Hexanone</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC314</td>
<td>2-Hydroxypyridine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC314N</td>
<td>2-Hydroxypyridine Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC315</td>
<td>2-Hydroxypyridine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC316</td>
<td>2-Nitropropane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC316N</td>
<td>2-Nitropropane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC317</td>
<td>2-Nitropropane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC318</td>
<td>2-Pentanone</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC318N</td>
<td>2-Pentanone</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC319</td>
<td>2-Pentanone</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC320</td>
<td>2-Picoline</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC320N</td>
<td>2-Picoline</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC321</td>
<td>2-Picoline</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC322</td>
<td>2-Propanol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>REVOC322N</td>
<td>2-Propanol</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC323</td>
<td>2-Propanol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC324</td>
<td>2-Propanol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC325</td>
<td>2-Propanol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC326</td>
<td>3-Chloropropionitrile</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC326N</td>
<td>3-Chloropropionitrile</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC327</td>
<td>3-Chloropropionitrile</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC328</td>
<td>4-Methyl-2-pentanone (MIBK)</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC328N</td>
<td>4-Methyl-2-pentanone (MIBK)</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC329</td>
<td>4-Methyl-2-pentanone (MIBK)</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC330</td>
<td>Acrolein (Propenal)</td>
<td>1000µg/ml in Distilled Water</td>
</tr>
<tr>
<td>REVOC330N</td>
<td>Acrolein (Propenal)</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC331</td>
<td>Acrolein (Propenal)</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC332</td>
<td>Acrolein (Propenal)</td>
<td>2000µg/ml in Distilled Water</td>
</tr>
<tr>
<td>REVOC333</td>
<td>Acrolein (Propenal)</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC334</td>
<td>Acrylonitrile</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC334N</td>
<td>Acrylonitrile</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC335</td>
<td>Acrylonitrile</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC336</td>
<td>Allyl alcohol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC336N</td>
<td>Allyl alcohol</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC337</td>
<td>Allyl alcohol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC338</td>
<td>Allyl chloride</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC338N</td>
<td>Allyl chloride</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC339</td>
<td>Allyl chloride</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>REVOC340</td>
<td>Benzyl chloride</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC340N</td>
<td>Benzyl chloride Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC341</td>
<td>Benzyl chloride</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC342</td>
<td>Bromoacetone</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC342N</td>
<td>Bromoacetone Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC343</td>
<td>Bromoacetone</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC344</td>
<td>Bromomethane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC344N</td>
<td>Bromomethane Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC345</td>
<td>Bromomethane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC346</td>
<td>Chloroethane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC346N</td>
<td>Chloroethane Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC347</td>
<td>Chloroethane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC348</td>
<td>Chloromethane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC348N</td>
<td>Chloromethane Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC349</td>
<td>Chloromethane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC350</td>
<td>Chloroprene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC351</td>
<td>Chloroprene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC352</td>
<td>cis-1,4-Dichloro-2-butene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC352N</td>
<td>cis-1,4-Dichloro-2-butene Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC353</td>
<td>cis-1,4-Dichloro-2-butene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC354</td>
<td>Crotonaldehyde</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC354N</td>
<td>Crotonaldehyde Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC355</td>
<td>Crotonaldehyde</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC356</td>
<td>Dichlorodifluoromethane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC356N</td>
<td>Dichlorodifluoromethane Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC357</td>
<td>Dichlorodifluoromethane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>REVOC358</td>
<td>Epichlorohydrin</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC358N</td>
<td>Epichlorohydrin Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC359</td>
<td>Epichlorohydrin</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC360</td>
<td>Ethanol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC360N</td>
<td>Ethanol Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC361</td>
<td>Ethanol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC362</td>
<td>Ethyl acetate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC362N</td>
<td>Ethyl acetate Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC363</td>
<td>Ethyl acetate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC364</td>
<td>Ethyl methacrylate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC364N</td>
<td>Ethyl methacrylate Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC365</td>
<td>Ethyl methacrylate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC366</td>
<td>Ethylene oxide</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC367</td>
<td>Ethylene oxide</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC368</td>
<td>Hexachloroethane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC368N</td>
<td>Hexachloroethane Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC369</td>
<td>Hexachloroethane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC370</td>
<td>Iodomethane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC370N</td>
<td>Iodomethane Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC371</td>
<td>Iodomethane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC372</td>
<td>Isobutyl alcohol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC372N</td>
<td>Isobutyl alcohol Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC373</td>
<td>Isobutyl alcohol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC374</td>
<td>Malononitrile</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC374N</td>
<td>Malononitrile Neat</td>
<td></td>
</tr>
<tr>
<td>REVOC375</td>
<td>Malononitrile</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------</td>
</tr>
<tr>
<td>REVOC376</td>
<td>Methacrylonitrile</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC376N</td>
<td>Methacrylonitrile</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC377</td>
<td>Methacrylonitrile</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC378</td>
<td>Methyl methacrylate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC378N</td>
<td>Methyl methacrylate</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC379</td>
<td>Methyl methacrylate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC380</td>
<td>Nitrobenzene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC380N</td>
<td>Nitrobenzene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC381</td>
<td>Nitrobenzene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC382</td>
<td>N-Nitroso-di-n-butylamine</td>
<td>1000µg/ml in Acetone</td>
</tr>
<tr>
<td>REVOC382N</td>
<td>N-Nitroso-di-n-butylamine</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC383</td>
<td>N-Nitroso-di-n-butylamine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC384</td>
<td>N-Nitroso-di-n-butylamine</td>
<td>2000µg/ml in Acetone</td>
</tr>
<tr>
<td>REVOC385</td>
<td>N-Nitroso-di-n-butylamine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC386</td>
<td>Pentachloroethane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC386N</td>
<td>Pentachloroethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC387</td>
<td>Pentachloroethane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC388</td>
<td>Propargyl alcohol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC388N</td>
<td>Propargyl alcohol</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC389</td>
<td>Propargyl alcohol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC390</td>
<td>Propionitrile (ethyl cyanide)</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC390N</td>
<td>Propionitrile (ethyl cyanide)</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC391</td>
<td>Propionitrile (ethyl cyanide)</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC392</td>
<td>Pyridine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC393</td>
<td>Pyridine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>REVOC394</td>
<td>trans-1,4-Dichloro-2-butene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC394N</td>
<td>trans-1,4-Dichloro-2-butene</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC395</td>
<td>trans-1,4-Dichloro-2-butene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC396</td>
<td>Trichlorofluoromethane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC396N</td>
<td>Trichlorofluoromethane</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC397</td>
<td>Trichlorofluoromethane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC398</td>
<td>Vinyl acetate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC398N</td>
<td>Vinyl acetate</td>
<td>Neat</td>
</tr>
<tr>
<td>REVOC399</td>
<td>Vinyl acetate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>REVOC400</td>
<td>Vinyl chloride</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
</tbody>
</table>
These products are prepared gravimetrically on a weight/volume basis. Both solute and solvent are prepared using equipment calibrated by Reagecon engineers. Reagecon holds IEC/ISO 17025 accreditation for calibration of laboratory balances and pipettes (INAB Ref:265C). The resulting equipment Calibration Certificates are issued in accordance with the requirements of ISO/IEC 17025. The results are then reported and certified in µg/ml on the basis of weight and the density measurement of the standard. Reagecon is IEC/ISO 17025 (INAB Ref:264T) Accredited for density measurement using an Oscillating U-Tube Method in accordance with the ASTM D4052 method. The concentration of each standard is verified using a high performance calibrated Gas Chromatograph - Mass Spectrometer (GC-MS Instrument). The calibration of the GC-MS instrument is completed using high purity ISO Guide 34 accredited Phenol standards from a secondary source similar in Phenol concentration value to these products. The mass spectrum of each of the analytes is confirmed by comparison with the National Institute of Standards and Technology (NIST) mass spectral library.
# Phenol Mixed Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE001</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(11 Compound Mix)</td>
<td>2-Chlorophenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Dichloromethane (Methylene Chloride)</td>
<td>604</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE002</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(7 Compound Mix)</td>
<td>2,6-Dichlorophenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Dichloromethane (Methylene Chloride)</td>
<td>604</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE003</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(11 Compound Mix)</td>
<td>2-Chlorophenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Methanol</td>
<td>604</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE004</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(5 Compound Mix)</td>
<td>4-Chloro-3-methylphenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Methanol</td>
<td>604</td>
<td>1ml</td>
</tr>
</tbody>
</table>
# Phenol Mixed Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE005</td>
<td></td>
<td></td>
<td>8270</td>
<td>Ampoule</td>
</tr>
<tr>
<td>(18 Compound Mix)</td>
<td>2-Chlorophenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Isopropanol</td>
<td></td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4,6-Trichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,6-Dichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Methylphenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Methylphenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4,5-Trichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,3,4,6-Tetrachlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-sec-Butyl-4,6-dinitrophenol (Dinoseb)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPHE006</td>
<td>4-Chloro-3-methylphenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Methanol</td>
<td>8270</td>
<td>1ml</td>
</tr>
<tr>
<td>(13 Compound Mix)</td>
<td>2-Chlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,6-Dichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,3,4,6-Tetrachlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4,6-Trichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------------</td>
<td>---------------------------------------------------</td>
<td>----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPHE007</td>
<td>(11 Compound Mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Methanol</td>
<td>8270</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4,6-Trichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPHE008</td>
<td>(5 Compound Mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Dichloromethane</td>
<td>8270</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td>(Methylene Chloride)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPHE009</td>
<td>(6 Compound Mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Dichloromethane</td>
<td>8270</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td>(Methylene Chloride)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4,6-Trichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPHE010</td>
<td>(6 Compound Mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
<td>Each analyte at 2,000µg/ml in high-purity Dichloromethane</td>
<td>1311</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>3-Methylphenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Methylphenol</td>
<td>(Methylene Chloride)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4,6-Trichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4,5-Trichlorophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Phenol Mixed Standards

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 100µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE015 (17 compound mix)</td>
<td>2,3,4,6-Tetrachlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4,5-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2,6-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>3-Methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 5000µg/ml in Methylene Chloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE016 (14 compound mix)</td>
<td>2,4,5-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 2000µg/ml in Methylene Chloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE017 (14 compound mix)</td>
<td>2,4,5-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 1000µg/ml in Methylene Chloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE018 (14 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2,6-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description - Each at 1000µg/ml in Purge &amp; Trap Methanol</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>REPHE020</td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>3-Methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description - Each at 2000µg/ml in Methylene Chloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE023</td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description - Each at 2000µg/ml in Isopropanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE024</td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description - Each at 500µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE026</td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
</tbody>
</table>
## Phenol Mixed Standards

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 20µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE028 (11 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 500µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE030 (11 compound mix)</td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-sec-Butyl-4,6-dinitrophenol (Dinoseb)</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 1000µg/ml in Purge &amp; Trap Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE029 (11 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 2000µg/ml in Methylene Chloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE031 (11 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>2-sec-Butyl-4,6-dinitrophenol (Dinoseb)</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
</tr>
<tr>
<td>Product No.</td>
<td>Packed in 1ml Ampoule</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>REPHE034</td>
<td>(11 compound mix)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>REPHE038</td>
<td>(8 compound mix)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>REPHE040</td>
<td>(7 compound mix)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Phenol Mixed Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description - Each at</th>
<th>Packed in 1ml Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE042</td>
<td>2-Chlorophenol</td>
<td>(5 compound mix)</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
</tr>
<tr>
<td>REPHE043</td>
<td>2,4-Dimethylphenol</td>
<td>(5 compound mix)</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
</tr>
<tr>
<td>REPHE044</td>
<td>2,4,5-Trichlorophenol</td>
<td>(5 compound mix)</td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-sec-Butyl-4,6-dinitrophenol (Dinoseb)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Methylphenol</td>
<td></td>
</tr>
<tr>
<td>REPHE045</td>
<td>2-Chlorophenol</td>
<td>(5 compound mix)</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
</tr>
<tr>
<td>REPHE046</td>
<td>2,4,5-Trichlorophenol</td>
<td>(4 compound mix)</td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-sec-Butyl-4,6-dinitrophenol (Dinoseb)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Methylphenol</td>
<td></td>
</tr>
<tr>
<td>REPHE047</td>
<td>2,4,5-Trichlorophenol</td>
<td>(4 compound mix)</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td>REPHE048</td>
<td>2-Chlorophenol</td>
<td>(4 compound mix)</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td>REPHE049</td>
<td>2,4-Dinitrophenol</td>
<td>(4 compound mix)</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td>REPHE050</td>
<td>2,4-Dinitrophenol</td>
<td>(3 compound mix)</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td>REPHE051</td>
<td>2,4-Dinitrophenol</td>
<td>(3 compound mix)</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td>REPHE052</td>
<td>2,4-Dinitrophenol</td>
<td>(3 compound mix)</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td>REPHE053</td>
<td>2,4-Dinitrophenol</td>
<td>(3 compound mix)</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td>Product No. Packed in 1ml Ampoule</td>
<td>Description - Each in Purge &amp; Trap Methanol</td>
<td>Concentration µg/ml</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>REPHE022 (12 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each in Purge &amp; Trap Methanol</th>
<th>Concentration µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE025 (11 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td>1500</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td>2500</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td>2500</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td>2500</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td>2500</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td>600</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each in Purge &amp; Trap Methanol</th>
<th>Concentration µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE027 (11 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
<td>1500</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td>1500</td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td>2500</td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td>2500</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td>2500</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td>2500</td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td>500</td>
</tr>
</tbody>
</table>
# Phenol Mixed Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description - Each in Purge &amp; Trap Methanol</th>
<th>Concentration µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE044</td>
<td>2,4,6-Trichlorophenol</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>3-Methylphenol</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td>40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description - Each in Acetone</th>
<th>Concentration µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE121</td>
<td>Bisphenol A</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4-tert-Octylphenol</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Nonylphenol</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>4-Nonyl Phenol Monoethoxylate</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>4-Nonyl Phenol Diethoxylate</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>4-tert-Octylphenol Monoethoxylate</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4-tert-Octylphenol Diethoxylate</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description - Each in Methylene Chloride</th>
<th>Concentration µg/ml</th>
<th>US EPA Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE019</td>
<td>2,4,6-Trichlorophenol</td>
<td>1000</td>
<td>526</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td>1000</td>
<td>528</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td>5000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,6-Dichlorophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methylphenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>Product No. Packed in 1ml Ampoule</td>
<td>Description - Each in Purge &amp; Trap Methanol</td>
<td>Concentration µg/ml</td>
<td>US EPA Methods</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------------------------------------</td>
<td>---------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>REPHE021 (12 compound mix)</td>
<td>2,4-Dichlorophenol</td>
<td>1000</td>
<td>525</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td>5000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,6-Dichlorophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td>5000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methylyphenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each in Methylene Chloride</th>
<th>Concentration µg/ml</th>
<th>US EPA Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE032 (11 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
<td>1500</td>
<td>604</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td>500</td>
<td>625</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td>1500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-sec-Butyl-4,6-dinitrophenol (Dinoseb)</td>
<td>2500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td>2000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td>2500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td>2500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td>500</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 2000µg/ml in Methylene Chloride</th>
<th>US EPA Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE033 (11 compound mix)</td>
<td>2,4-Dichlorophenol</td>
<td>82708</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-sec-Butyl-4,6-dinitrophenol (Dinoseb)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
</tr>
</tbody>
</table>
## Phenol Mixed Standards

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 100µg/ml in Purge &amp; Trap Methanol</th>
<th>US EPA Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE035 (10 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
<td>625</td>
</tr>
<tr>
<td></td>
<td>2,4-Dichlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,6-Dichlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Chloro-3-methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Nitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentachlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 2000µg/ml in Isopropanol</th>
<th>US EPA Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE036 (9 compound mix)</td>
<td>2,3,4,6-Tetrachlorophenol</td>
<td>8040</td>
</tr>
<tr>
<td></td>
<td>2,4,5-Trichlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dinitrophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,6-Dichlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Chlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-sec-Butyl-4,6-dinitrophenol (Dinoseb)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Methylphenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Methylphenol</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No. Packed in 1ml Ampoule</th>
<th>Description - Each at 1000µg/ml in Methylene Chloride</th>
<th>US EPA Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE049 (4 compound mix)</td>
<td>2,4,6-Trichlorophenol</td>
<td>525</td>
</tr>
<tr>
<td></td>
<td>2,6-Dichlorophenol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methyl-4,6-dinitrophenol (DNOC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenol</td>
<td></td>
</tr>
</tbody>
</table>
### Phenols Single Compound Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE101</td>
<td>2-Chlorophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE102</td>
<td>2,4-Dichlorophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE103</td>
<td>2,4-Dimethylphenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE104</td>
<td>4-Chloro-3-methylphenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE105</td>
<td>2-Methyl-4,6-dinitrophenol(DNOC)</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE106</td>
<td>2,4-Dinitrophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE107</td>
<td>2-Nitrophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE108</td>
<td>4-Nitrophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE109</td>
<td>Pentachlorophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE110</td>
<td>Phenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE119</td>
<td>Phenol</td>
<td>100µg/ml in Methylene Chloride</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE111</td>
<td>2,4,6-Trichlorophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE112</td>
<td>2,4,5-Trichlorophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE113</td>
<td>2,3,4,6-Tetrachlorophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE114</td>
<td>2,6-Dichlorophenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE115</td>
<td>2-Methylphenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE116</td>
<td>3-Methylphenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE117</td>
<td>4-Methylphenol</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE118</td>
<td>Dinoseb</td>
<td>2000µg/ml in high-purity Methanol</td>
<td>604, 8270, 1311</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE120</td>
<td>Pentachlorophenol</td>
<td>10µg/ml in Cyclohexane</td>
<td>528, 604, 8270</td>
<td>10ml</td>
</tr>
<tr>
<td>REPHE124</td>
<td>2,4-Dichlorophenol</td>
<td>1000 µg/ml in high-purity Methanol</td>
<td>528, 604, 8270</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHE125</td>
<td>Picric Acid</td>
<td>1000µg/ml in Acetonitrile and Water (1:1)</td>
<td>528, 604, 8270</td>
<td>1ml</td>
</tr>
</tbody>
</table>

### Phenols Surrogate Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description in 1:1 Dichloromethane:Acetone</th>
<th>Concentration µg/ml</th>
<th>US EPA Methods</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHE001-S</td>
<td>2-Fluorobiphenyl</td>
<td>1000</td>
<td>625</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Nitrobenzene D5</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>p-Terphenyl-D14</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methyl Orange</td>
<td>2500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPHE005-S</td>
<td>2-Fluorobiphenyl</td>
<td>5000</td>
<td>625</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Nitrobenzene D5</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>p-Terphenyl-D14</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methyl Orange</td>
<td>12500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
These products are prepared gravimetrically on a weight/volume basis. Both solute and solvent are prepared using equipment calibrated by Reagecon engineers. Reagecon holds IEC/ISO 17025 accreditation for calibration of laboratory balances and pipettes (INAB Ref:265C). The resulting equipment Calibration Certificates are issued in accordance with the requirements of ISO/IEC 17025. The results are then reported and certified in µg/ml on the basis of weight and the density measurement of the standard. Reagecon is IEC/ISO 17025 (INAB Ref:264T) Accredited for density measurement using an Oscillating U-Tube Method in accordance with the ASTM D4052 method. The concentration of each standard is verified using a high performance calibrated Gas Chromatograph - Mass Spectrometer (GC-MS Instrument). The calibration of the GC-MS instrument is completed using high purity ISO Guide 34 accredited PAH standards similar in PAH concentration value to these products. The mass spectrum of each of the analytes is confirmed by comparison with the National Institute of Standards and Technology (NIST) mass spectral library.
<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH001</td>
<td>Acenaphthene</td>
<td>2000</td>
<td>Benzene: Dichloromethane (Methylene Chloride)</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a,h)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH002</td>
<td>Acenaphthene</td>
<td>1000</td>
<td>Benzene: Dichloromethane (Methylene Chloride)</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a,h)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Polycyclic Aromatic Hydrocarbons (PAHs)
Multi Compound Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH017</td>
<td>Acenaphthene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>(16 compound mix)</td>
<td>Anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH004</td>
<td>Acenaphthene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>(16 compound mix)</td>
<td>Anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------</td>
<td>---------------------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH005</td>
<td>(16 compound mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH005</td>
<td>Acenaphthene</td>
<td>100</td>
<td>Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH006</td>
<td>(16 compound mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH006</td>
<td>Acenaphthene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Polycyclic Aromatic Hydrocarbons (PAHs)
#### Multi Compound Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH007 (16 compound mix)</td>
<td>Acenaphthene</td>
<td>500</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH010 (16 compound mix)</td>
<td>Acenaphthene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------</td>
<td>--------------------</td>
<td>---------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH011</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(16 compound mix)</td>
<td>Acenaphthene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH011</td>
<td>Anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Acenaphthylene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Benzo(a)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Benzo(a)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Benzo(b)fluoranthene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Benzo(g,h,i)perylene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Dibenzo(a,h)anthracene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Benzo(k)fluoranthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Chrysene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Fluoroanthene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Fluorene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Naphthalene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Phenanthrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH011</td>
<td>Pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(16 compound mix)</td>
<td>Acenaphthene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH012</td>
<td>Anthracene</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Acenaphthylene</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Benzo(a)anthracene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Benzo(a)pyrene</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Benzo(b)fluoranthene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Benzo(g,h,i)perylene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Dibenzo(a,h)anthracene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Benzo(k)fluoranthene</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Chrysene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Fluorene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Naphthalene</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Phenanthrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH012</td>
<td>Pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Polycyclic Aromatic Hydrocarbons (PAHs) Multi Compound Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH014</td>
<td>Acenaphthene</td>
<td>1000</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td>63</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>63</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>63</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH015</td>
<td>Acenaphthene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------</td>
<td>---------------------</td>
<td>-------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH016</td>
<td>Acenaphthene</td>
<td>20</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH020</td>
<td>Acenaphthene</td>
<td>100</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Polycyclic Aromatic Hydrocarbons (PAHs)
## Multi Component Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg/ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH021</td>
<td>Acenaphthene</td>
<td>1000</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH027</td>
<td>Anthracene</td>
<td>50</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH032</td>
<td>Acenaphthylene</td>
<td>400</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------------</td>
<td>----------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH033</td>
<td>Anthracene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>(8 compound mix)</td>
<td>Benzo(a)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH034</td>
<td>Anthracene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>(7 compound mix)</td>
<td>Acenaphthylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH035</td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td></td>
<td>1ml</td>
</tr>
<tr>
<td>(6 compound mix)</td>
<td>Benzo(b)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH036</td>
<td>Benzo(a)pyrene</td>
<td>10</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>(6 compound mix)</td>
<td>Benzo(b)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH037</td>
<td>Benzo(a)pyrene</td>
<td>2</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>(6 compound mix)</td>
<td>Benzo(b)fluoroanthene</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Polycyclic Aromatic Hydrocarbons (PAHs)
### Multi Component Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg/ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH038</td>
<td>Anthracene</td>
<td>200</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>(5 compound mix)</td>
<td>Benzo(a)pyrene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH039</td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>(5 compound mix)</td>
<td>Benzo(b)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH040</td>
<td>Benzo(a)anthracene</td>
<td>2000</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>(5 compound mix)</td>
<td>Benzo(a)pyrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH041</td>
<td>Acenaphthene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>(5 compound mix)</td>
<td>Anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH013</td>
<td>Acenaphthene</td>
<td>10</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>(16 compound mix)</td>
<td>Anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------</td>
<td>---------------------</td>
<td>---------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH018</td>
<td>Acenaphthene</td>
<td>20</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>(16 compound mix)</td>
<td>Anthracene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH019</td>
<td>Acenaphthene</td>
<td>100</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>(16 compound mix)</td>
<td>Anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Polycyclic Aromatic Hydrocarbons (PAHs)
#### Multi Component Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg/ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH022</td>
<td>Acenaphthene</td>
<td>10</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg/ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH023</td>
<td>Anthracene</td>
<td>10</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------</td>
<td>---------------------</td>
<td>-------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH028</td>
<td>Acenaphthene</td>
<td>50</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg/ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH029</td>
<td>Benzo(a)anthracene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg/ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH030</td>
<td>Benzo(a)anthracene</td>
<td>2000</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenantrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Polycyclic Aromatic Hydrocarbons (PAHs)
### Multi Component Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg/ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH031</td>
<td>(10 compound mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH003</td>
<td>(16compound mix)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH031</td>
<td>Benzo(a)anthracene</td>
<td>2000</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH003</td>
<td>Acenaphthene</td>
<td>1000</td>
<td>Methanol:Acetone 1:1</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>---------------------</td>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH008</td>
<td>Acenaphthene</td>
<td>1000</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>(16 compound mix)</td>
<td>Anthracene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>---------------------</td>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH024</td>
<td>Anthracene</td>
<td>100</td>
<td>Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>(13 compound mix)</td>
<td>Acenaphthylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH025 (13 compound mix)</td>
<td>Anthracene</td>
<td>1000</td>
<td>Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoranthene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoranthene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH026 (13 compound mix)</td>
<td>Anthracene</td>
<td>500</td>
<td>Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoranthene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoranthene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH042 (10 compound mix)</td>
<td>Benzo(a)anthracene</td>
<td>25</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoranthene</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(j)fluoranthene</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoranthene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoranthene</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>--------------</td>
<td>---------------------</td>
<td>---------------------</td>
<td>-----------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH001-I</td>
<td>Acenaphthylene D10</td>
<td>4000</td>
<td>Dichloromethane:Benzene</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Chrysene D12</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,4-Dichlorobenzene D4</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene D8</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Perylene D12</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH002-I</td>
<td>Acenaphthylene D10</td>
<td>4000</td>
<td>Dichloromethane</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Chrysene D12</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,4-Dichlorobenzene D4</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene D8</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Perylene D12</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH001-S</td>
<td>2-Fluorobiphenyl</td>
<td>2000</td>
<td>Dichloromethane</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>1-Fluoronaphthalene</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH009</td>
<td>Acenaphthene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Anthracene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)anthracene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chrysene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluoroanthene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluorene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Naphthalene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenanthrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(a)pyrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibenzo(a,h)anthracene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acenaphthylene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(j)fluoroanthene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(e)pyrene</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPAH045</td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td>Acetonitrile</td>
<td>10ml</td>
</tr>
<tr>
<td></td>
<td>Benzo(b)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(k)fluoroanthene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzo(g,h,i)perylene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------</td>
<td>--------------------</td>
<td>-------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH101</td>
<td>Acenaphthene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH102</td>
<td>Anthracene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH103</td>
<td>Benzo(a)anthracene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH104</td>
<td>Chrysene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH105</td>
<td>Fluoroanthene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH106</td>
<td>Fluorene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH107</td>
<td>Naphthalene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH108</td>
<td>Phenanthrene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH109</td>
<td>Pyrene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH110</td>
<td>Benzo(a)pyrene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH112</td>
<td>Benzo(g,h,i)perylene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH113</td>
<td>Dibenzo(a,h)anthracene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH114</td>
<td>Benzo(k)fluoroanthene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH115</td>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH116</td>
<td>Acenaphthylene</td>
<td>2000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH118</td>
<td>Benzo(a)anthracene</td>
<td>10</td>
<td>Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH119</td>
<td>Benzo(a)pyrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH150</td>
<td>2-Acetylaminofluorene</td>
<td>1000</td>
<td>Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH151</td>
<td>2-Acetylaminofluorene</td>
<td>2000</td>
<td>Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH152</td>
<td>7,12-Dimethylbenz(a)-anthracene</td>
<td>1000</td>
<td>Methylene Chloride:Benzene (50:50)</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH153</td>
<td>7,12-Dimethylbenz(a)-anthracene</td>
<td>2000</td>
<td>Methylene Chloride:Benzene (50:50)</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH154</td>
<td>Dibenz(a,j)acridine</td>
<td>1000</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH155</td>
<td>Dibenz(a,j)acridine</td>
<td>2000</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH156</td>
<td>Dibenz(a,e)pyrene</td>
<td>1000</td>
<td>Methylene Chloride:Benzene (50:50)</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH157</td>
<td>Dibenz(a,e)pyrene</td>
<td>2000</td>
<td>Methylene Chloride:Benzene (50:50)</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH158</td>
<td>Fluoranthene</td>
<td>1000</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH159</td>
<td>Fluoranthene</td>
<td>2000</td>
<td>Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9001-I</td>
<td>2-Fluoro-6-methylnaphthalene</td>
<td>100</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9002-I</td>
<td>5-Fluoroacenaphthylene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9003-I</td>
<td>4-Fluorodiphenylmethane</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9004-I</td>
<td>2-Fluorofluorene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9005-I</td>
<td>2-Fluorodiphenylmethane</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9006-I</td>
<td>4,4’-Difluorodiphenylmethane</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9007-I</td>
<td>2-Fluorophenanthrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9008-I</td>
<td>3-Fluorophenanthrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9009-I</td>
<td>4-Fluorophenanthrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9010-I</td>
<td>3-Fluoro-6-methylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------</td>
<td>---------------------</td>
<td>----------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH9011-I</td>
<td>3-Fluorofluoranthene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9012-I</td>
<td>1-Fluoropyrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9013-I</td>
<td>1-Fluorochrysene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9014-I</td>
<td>3-Fluorochrysene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9015-I</td>
<td>9-Fluoro-5-methylchrysene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH9016-I</td>
<td>9-Fluorobenzo[k]fluoranthene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH7001</td>
<td>5-Fluoro-3-methylbenzo[b] thiophene</td>
<td>100</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH7002</td>
<td>5-Fluoro-2,3-dimethylbenzo[b] thiophene</td>
<td>100</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH7003</td>
<td>2-Fluorodibenzothiophene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH7101</td>
<td>1-Methylnaphthalene-d10</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH7102</td>
<td>2-Methylnaphthalene-d10</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH7103</td>
<td>1,8-Dimethylnaphthalene-d12</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH7104</td>
<td>2,6-Dimethylnaphthalene-d12</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH7105</td>
<td>9-Methylnaphthalene-d12</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH7106</td>
<td>1-Methylpyrene-d9</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1102</td>
<td>Triphenylene-d12</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1103</td>
<td>Benzo[e]pyrene-d12</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1104</td>
<td>Benzo[b]fluoranthene-d12</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1105</td>
<td>Benzo[k]fluoranthene-d12</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1106</td>
<td>Benzo[ghi]perylene-d12</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1107</td>
<td>Benzo[ghi]perylene-d12</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1108</td>
<td>Indeno[1,2,3-cd]pyrene-d12</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1109</td>
<td>Dibenz[a,h]anthracene-d14</td>
<td>100</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1110</td>
<td>Dibenz[a,h]anthracene-d14</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1111</td>
<td>Coronene-d12</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1112</td>
<td>Dibenz[a]pyrene-d14</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1113</td>
<td>Biphenyl-d10</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1114</td>
<td>o-Terphenyl-d14</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1115</td>
<td>m-Terphenyl-d14</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1116</td>
<td>p-Terphenyl-d14</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1117</td>
<td>p-Terphenyl-d14</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1118</td>
<td>2,2'-Binaphthyl-d14</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1201</td>
<td>Carbazole-d8</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1202</td>
<td>Acridine-d9</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1301</td>
<td>1-Nitrophenanthalene-d7</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1302</td>
<td>2-Methyl-1-nitrophenanthalene-d9</td>
<td>100</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1303</td>
<td>2-Nitrofluorene-d9</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1304</td>
<td>2-Nitrofluorene-d9</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>---------------------</td>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td>REPAH1305</td>
<td>9-Nitrophenanthrene-d9</td>
<td>10</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1306</td>
<td>9-Nitroanthracene-d9</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1307</td>
<td>1-Nitropyrene-d9</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1308</td>
<td>3-Nitrofluoranthenes-d9</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1309</td>
<td>1-Nitrotriphenylene-d11</td>
<td>100</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1310</td>
<td>6-Nitrochloro-d11</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1311</td>
<td>6-Nitrobenzo[a]pyrene-d11</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1401</td>
<td>1-Aminonaphthalene-d7</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1402</td>
<td>2-Aminonaphthalene-d7</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1001</td>
<td>1-Nitronaphthalene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1002</td>
<td>2-Nitronaphthalene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1003</td>
<td>1-Methyl-4-nitronaphthalene</td>
<td>100</td>
<td>Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1004</td>
<td>1-Methyl-5-nitronaphthalene</td>
<td>100</td>
<td>Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1005</td>
<td>1-Methyl-6-nitronaphthalene</td>
<td>100</td>
<td>Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1006</td>
<td>2-Methyl-1-nitronaphthalene</td>
<td>100</td>
<td>Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1007</td>
<td>2-Methyl-4-nitronaphthalene</td>
<td>100</td>
<td>Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1008</td>
<td>1,5-Dinitronaphthalene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5001</td>
<td>1-Methylfluorene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5002</td>
<td>2-Methylfluorene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5003</td>
<td>4-Methylfluorene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5004</td>
<td>9-Methylfluorene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5005</td>
<td>1,7-Dimethylfluorene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5006</td>
<td>9-Ethylfluorene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5007</td>
<td>9-n-Propylfluorene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5008</td>
<td>9-n-Butylfluorene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5009</td>
<td>9,9-Di-n-octylfluorene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5010</td>
<td>9,9’-Bifluorenylidene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH4101</td>
<td>11H-Benz[a]fluorene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH4103</td>
<td>11H-Benz[b]fluorene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH4104</td>
<td>7H-Benz[c]fluorene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH4105</td>
<td>9-Phenylfluorene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH4201</td>
<td>2-Nitrofluorene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH4202</td>
<td>2,7-Dinitrofluorene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH4203</td>
<td>2-Nitro-9-fluorenone</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH4401</td>
<td>Phenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5101</td>
<td>1-Methylphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5102</td>
<td>2-Methylphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5103</td>
<td>3-Methylphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5104</td>
<td>4-Methylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5105</td>
<td>9-Methylphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------------------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH5201</td>
<td>1,2-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5202</td>
<td>1,3-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5203</td>
<td>1,4-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5204</td>
<td>1,5-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5205</td>
<td>1,6-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5206</td>
<td>1,7-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5207</td>
<td>1,8-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5208</td>
<td>1,9-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5209</td>
<td>2,3-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5210</td>
<td>2,4-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5211</td>
<td>2,5-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5212</td>
<td>2,6-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5213</td>
<td>2,7-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5214</td>
<td>2,9-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5215</td>
<td>2,10-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5216</td>
<td>3,4-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5217</td>
<td>3,5-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5218</td>
<td>3,6-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5219</td>
<td>3,9-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5220</td>
<td>3,10-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5221</td>
<td>4,9-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5222</td>
<td>4,10-Dimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5223</td>
<td>9,10-Dimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5224</td>
<td>3-Ethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5225</td>
<td>9-Ethylphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5301</td>
<td>1,2,4-Trimethylphenanthrene</td>
<td>200</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5302</td>
<td>1,2,5-Trimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5303</td>
<td>1,2,7-Trimethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5304</td>
<td>1,2,6-Trimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5305</td>
<td>1,2,8-Trimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5306</td>
<td>1,2,9-Trimethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5307</td>
<td>1,3,4-Trimethylphenanthrene</td>
<td>200</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5308</td>
<td>2,6,9-Trimethylphenanthrene</td>
<td>200</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5309</td>
<td>2,6,9-Trimethylphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5310</td>
<td>9-n-Propylphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5401</td>
<td>1,2,6,9-Tetramethylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5402</td>
<td>9-n-Butylphenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5403</td>
<td>Retene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5404</td>
<td>1,9-Dimethyl-5-ethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
</tbody>
</table>
## Polycyclic Aromatic Hydrocarbons (PAHs)
### Single Component Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg/ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH5405</td>
<td>1,9-Dimethyl-7-ethylphenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1501</td>
<td>4H-Cyclopenta[def]phenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1502</td>
<td>1H-Cyclopenta[l]phenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1503</td>
<td>Benzo[c]phenanthrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1504</td>
<td>2-Methylcyclopenta[l]phenanthrene</td>
<td>500</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1505</td>
<td>Triphenylene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1506</td>
<td>3-Methylphenanthro[3,4-c]phenanthrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1701</td>
<td>1-Methoxypphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1702</td>
<td>2-Methoxypphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1703</td>
<td>3-Methoxypphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1704</td>
<td>4-Methoxypphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1705</td>
<td>9-Methoxypphenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1801</td>
<td>2-Nitrophenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1802</td>
<td>3-Nitrophenanthrene</td>
<td>300</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1803</td>
<td>9-Nitrophenanthrene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1804</td>
<td>5-Nitrobenzo[c]phenanthrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1805</td>
<td>1-Nitrotriphenylene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH1901</td>
<td>Anthracene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5501</td>
<td>1-Methylanthracene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5502</td>
<td>2-Methylanthracene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5504</td>
<td>9-Methylanthracene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5601</td>
<td>1,2-Dimethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5602</td>
<td>1,3-Dimethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5603</td>
<td>1,4-Dimethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5604</td>
<td>1,5-Dimethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5605</td>
<td>2,3-Dimethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5606</td>
<td>2,7-Dimethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5607</td>
<td>9,10-Dimethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5608</td>
<td>2-Ethylanthracene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5701</td>
<td>1,2,4-Trimethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5702</td>
<td>1,2,3,4-Tetramethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5703</td>
<td>2,3,6,7-Tetramethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5704</td>
<td>2,3,9,10-Tetramethylanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5705</td>
<td>2-tert-Butylanthracene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5801</td>
<td>1-Methylbenz[a]anthracene</td>
<td>50</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5802</td>
<td>5-Methylbenz[a]anthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5803</td>
<td>6-Methylbenz[a]anthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------</td>
<td>---------------------</td>
<td>----------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH5804</td>
<td>7-Methylbenz[a]anthracene</td>
<td>50</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5805</td>
<td>10-Methylbenz[a]anthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5806</td>
<td>3,9-Dimethylbenz[a]anthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5807</td>
<td>7,12-Dimethylbenz[a]anthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2001</td>
<td>Dibenz[a,c]anthracene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2002</td>
<td>Tetrabenzen[a,c,h,j]anthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2101</td>
<td>2-Nitroanthracene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2102</td>
<td>9-Nitroanthracene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2103</td>
<td>9-Methyl-10-nitroanthracene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2104</td>
<td>9,10-Dinitroanthracene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2201</td>
<td>7-Nitrobenz[a]anthracene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2202</td>
<td>7-Nitrodibenzen[a,h]anthracene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2301</td>
<td>1,2,3,10b-Tetrahydrofluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5901</td>
<td>1-Methylfluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5902</td>
<td>2-Methylfluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5903</td>
<td>3-Methylfluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH5904</td>
<td>3-Ethylfluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2401</td>
<td>Benzo[a]fluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2402</td>
<td>Benzo[ghi]fluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2403</td>
<td>2-Phenylfluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2502</td>
<td>Dibenz[a,e]fluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2506</td>
<td>Indeno[1,2,3-cd]fluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2601</td>
<td>Naphtho[1,2-b]fluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2602</td>
<td>Naphtho[1,2-k]fluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2603</td>
<td>Naphtho[2,3-b]fluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2604</td>
<td>Naphtho[2,3-j]fluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2605</td>
<td>Naphtho[2,3-k]fluoranthene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2701</td>
<td>1-Nitrofluoranthene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2702</td>
<td>2-Nitrofluoranthene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2703</td>
<td>3-Nitrofluoranthene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6001</td>
<td>1-Methylpyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6002</td>
<td>4-Methylpyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6003</td>
<td>4,5-Dimethylpyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6004</td>
<td>2,7-Dimethylpyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6005</td>
<td>1-Ethylpyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6006</td>
<td>1-n-Propylpyrene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6007</td>
<td>1-n-Butylpyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6101</td>
<td>6-Methylbenzo[a]pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6102</td>
<td>7-Methylbenzo[a]pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6103</td>
<td>7,10-Dimethylbenzo[a]pyrene</td>
<td>50</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2801</td>
<td>Dibenz[a,e]pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2802</td>
<td>Dibenz[a,h]pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2803</td>
<td>Dibenz[a,j]pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Matrix</td>
<td>Pack size</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
<td>---------------------</td>
<td>----------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPAH2804</td>
<td>Dibenzo[a,l]pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2805</td>
<td>Dibenzo[e,l]pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2901</td>
<td>Cyclopenta[cd]pyrene</td>
<td>50</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2902</td>
<td>Naphtho[2,3-ajpyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2903</td>
<td>Naphtho[2,3-e]pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2904</td>
<td>2,3-Peri-naphthylene-pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH2905</td>
<td>2.3,7,8-Di-(peri-naphthylene)-pyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3001</td>
<td>1-Hydroxypyrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3003</td>
<td>3-Hydroxybenzo[a]pyrene</td>
<td>50</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3101</td>
<td>1-Nitropyrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3102</td>
<td>2-Nitropyrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3103</td>
<td>4-Nitropyrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3104</td>
<td>1,3-Dinitropyrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3105</td>
<td>1,6-Dinitropyrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3106</td>
<td>1,8-Dinitropyrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6201</td>
<td>1-Methylchrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6202</td>
<td>2-Methylchrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6203</td>
<td>3-Methylchrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6204</td>
<td>4-Methylchrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6205</td>
<td>5-Methylchrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6206</td>
<td>6-Methylchrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6301</td>
<td>6-Ethylchrysene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6302</td>
<td>1,3,6-Trimethylchrysene</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6303</td>
<td>6-n-Propylchrysene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6304</td>
<td>6-n-Butylchrysene</td>
<td>1000</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3201</td>
<td>Benzo[a]chrysene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3202</td>
<td>Benzo[b]chrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3203</td>
<td>Benzo[c]chrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3204</td>
<td>Benzo[g]chrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3205</td>
<td>Dibenzo[g,p]chrysene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3301</td>
<td>Anthanthrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6401</td>
<td>6-Methylanthanthrene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3302</td>
<td>6-Nitroanthanthrene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6501</td>
<td>1-n-Hexylperylene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3401</td>
<td>Benzo[b]perylene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3402</td>
<td>Dibenzo[b,ghi]perylene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3403</td>
<td>Dibenzo[e,ghi]perylene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3404</td>
<td>Naphtho[8,1,2-bcd]perylene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3405</td>
<td>Naphtho[1,2,3,4-ghi]perylene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3501</td>
<td>1-Nitroperylene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3502</td>
<td>3-Nitroperylene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6601</td>
<td>2,9-Dimethylpicene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
</tbody>
</table>
## Polycyclic Aromatic Hydrocarbons (PAHs)
### Single Component Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration/µg ml</th>
<th>Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPAH3601</td>
<td>Coronene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH6701</td>
<td>1-Methylcoronene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3603</td>
<td>Dibenzo[a,j]coronene</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3605</td>
<td>Naphtho[2,3-a]coronene</td>
<td>30</td>
<td>1,2,4- Trichlorobenzene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3701</td>
<td>1-Nitrocoronene</td>
<td>100</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3901</td>
<td>9-Chloro-9H-fluorene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3902</td>
<td>2-Chloroanthracene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3903</td>
<td>9-Chlorophenanthrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3904</td>
<td>6-Chlorobenzo[a]pyrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3905</td>
<td>1-Chloropyrene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3906</td>
<td>3-Chlorofluoranthene</td>
<td>50</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3801</td>
<td>Benzanthrone</td>
<td>1000</td>
<td>Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3804</td>
<td>Isoviolanthrone</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPAH3805</td>
<td>Violanthrone</td>
<td>200</td>
<td>Toluene</td>
<td>1ml</td>
</tr>
</tbody>
</table>

If your requirement is for Polycyclic Aromatic Hydrocarbons in Neat form please email us at sales@reagecon.ie
Pesticide Standards

Summary of Features & Benefits:

Commercial Benefits
- Ready to use (dilute for use as calibration and/or quality control standards)
- Extensive range of organic compound mixes and single compound standards available
- Can be used with a variety of instruments including GC, GC-MS, HPLC and LC-MS
- Designed specifically for use in EPA or EU analytical methods
- Presented in high quality amber ampoules
- Customised formulations available

Technical Benefits
- Produced in accordance with EPA methods
- Consistency of product - Independent, Traceable, Certified
- Ideal for use in EPA 500, 600 and 8000 series methods
- Certificates of Analysis and Safety Data Sheets available online

These products are prepared gravimetrically on a weight/volume basis. Both solute and solvent are prepared using equipment calibrated by Reagecon engineers. Reagecon holds IEC/ISO 17025 accreditation for calibration of laboratory balances and pipettes (INAB Ref:265C). The resulting equipment Calibration Certificates are issued in accordance with the requirements of ISO/IEC 17025. The results are then reported and certified in µg/ml on the basis of weight and the density measurement of the standard. Reagecon is IEC/ISO 17025 (INAB Ref:264T) Accredited for density measurement using an Oscillating U-Tube Method in accordance with the ASTM D4052 method. The concentration of each standard is verified using a high performance calibrated Liquid Chromatograph - Mass Spectrometer (LC-MS Instrument) or Gas Chromatograph - Mass Spectrometer (GC-MS Instrument). The calibration of both of these instruments are completed using high purity ISO Guide 34 accredited Pesticide standards similar in Pesticide concentration value to these products. The mass spectrum of each of the analytes is confirmed by comparison with the National Institute of Standards and Technology (NIST) mass spectral library.
<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description in Acetone</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPETO01</td>
<td>Alachlor</td>
<td>50µg/ml</td>
<td>505</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Aldrin</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Atrazine</td>
<td>250µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lindane (HCH-gamma)</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>alpha-Chlorodane</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>gamma-Chlorodane</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dieldrin</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor Epoxide</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorobenzene</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorocyclopentadiene</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methoxychlor</td>
<td>25µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>cis-Nonachlor</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>trans-Nonachlor</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Simazine</td>
<td>250µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPETO02</td>
<td>Alachlor</td>
<td>50µg/ml</td>
<td>505</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Aldrin</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Atrazine</td>
<td>250µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lindane (HCH-gamma)</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>alpha-Chlorodane</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>gamma-Chlorodane</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dieldrin</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor Epoxide</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorobenzene</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorocyclopentadiene</td>
<td>15µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methoxychlor</td>
<td>50µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>cis-Nonachlor</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>trans-Nonachlor</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Simazine</td>
<td>500µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------</td>
<td>----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPET003</td>
<td>Aldrin</td>
<td>Each analyte at 1000µg/ml in high purity Methyl-tert Butyl Ether</td>
<td>508</td>
<td>1ml</td>
</tr>
<tr>
<td>(18 Compound Mix Chlorinated Pesticides)</td>
<td>Lindane (HCH-gamma)</td>
<td>1ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-alpha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-beta</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-delta</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4'DDD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4'DDE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4'DDT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diethyl ether</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan I (alpha)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan II (beta)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan sulfate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin aldehyde</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin ketone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor Epoxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methoxychlor</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description in Methyl-tert Butyl Ether</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPET004</td>
<td>Aldrin</td>
<td>5µg/ml</td>
<td>508</td>
<td>1ml</td>
</tr>
<tr>
<td>(18 Compound Mix Chlorinated Pesticides)</td>
<td>Lindane (HCH-gamma)</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-alpha</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-beta</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-delta</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4'DDD</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4'DDE</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4'DDT</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diethyl ether</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan I (alpha)</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan II (beta)</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan sulfate</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin aldehyde</td>
<td>10µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin ketone</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor Epoxide</td>
<td>5µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methoxychlor</td>
<td>50µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>----------------</td>
<td>--------------------------------------</td>
<td>--------------------------------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>REPETO05</td>
<td>alpha-Chlorodane</td>
<td>Each analyte at 1000µg/ml</td>
<td>508</td>
<td>1ml</td>
</tr>
<tr>
<td>(12 Compound Mix Pesticides)</td>
<td>gamma-Chlorodane</td>
<td>in high-purity Methy-tert</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorbenzilate</td>
<td>Butyl Ether</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chloronb</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorothalonil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DCPA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Etridiazole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorobenzene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>cis-Permethrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>trans-Permethrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Propachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trifluralin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPETO06</td>
<td>Alachlor</td>
<td>Each analyte at 1000µg/ml</td>
<td>508.1</td>
<td>1ml</td>
</tr>
<tr>
<td>(20 Compound Mix Pesticides)</td>
<td>Aldrin</td>
<td>in high-purity Ethyl Acetate</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Butachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lindane (HCH-gamma)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-alpha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-beta</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-delta</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dieldrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan I (alpha)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan II (beta)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan sulfate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin aldehyde</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin ketone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor Epoxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methoxychlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>---------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>REPET007</td>
<td>alpha-Chlorodane</td>
<td>Each analyte at 500µg/ml in high-purity Ethyl Acetate</td>
<td>508.1</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>gamma-Chlorodane</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorbenzilate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorineb</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorothalonil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cyanazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DCPA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Etridiazole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorobenzene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorocyclopentadiene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metolachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metribuzin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>trans-Permethrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Propachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trifluralin</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description in Benzene</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPET008</td>
<td>Aldrin</td>
<td>100µg/ml</td>
<td>608</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Lindane (HCH-gamma)</td>
<td>100µg/ml</td>
<td>625</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-alpha</td>
<td>100µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-beta</td>
<td>100µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-delta</td>
<td>100µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDD</td>
<td>600µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDE</td>
<td>200µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDT</td>
<td>600µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dieldrin</td>
<td>200µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan I (alpha)</td>
<td>200µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan II (beta)</td>
<td>200µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan sulfate</td>
<td>600µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td>200µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin aldehyde</td>
<td>600µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td>100µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor Epoxide</td>
<td>100µg/ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>REPETO09</td>
<td>Aldrin</td>
<td>Each analyte at 2000µg/ml</td>
<td>608</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Lindane (HCH-gamma)</td>
<td>in high-purity Benzene</td>
<td>617</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-alpha</td>
<td></td>
<td>8080A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-beta</td>
<td></td>
<td>8081A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-delta</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dieldrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan I (alpha)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan II (beta)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan sulfate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin aldehyde</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin ketone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor Epoxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methoxychlor</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPETO10</td>
<td>Aldrin</td>
<td>Each analyte at 1000µg/ml</td>
<td>617</td>
<td>1ml</td>
</tr>
<tr>
<td></td>
<td>Lindane (HCH-gamma)</td>
<td>in high-purity Toluene:Hexane 1:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-alpha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-beta</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-delta</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4’-DDT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dieldrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan I (alpha)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan II (beta)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endosulfan sulfate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin ketone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin aldehyde</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor Epoxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methoxychlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>REPET011</td>
<td>Isopropalin</td>
<td>Each analyte at 1000µg/ml in high-purity Hexane</td>
<td>627</td>
<td>1ml</td>
</tr>
<tr>
<td>(3 Compound Mix Pesticides)</td>
<td>Profuralin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trifluralin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPET012</td>
<td>Aldrin</td>
<td>Each analyte at 100µg/ml in high-purity Acetone</td>
<td>Not applicable</td>
<td>1ml</td>
</tr>
<tr>
<td>(14 Compound Mix Pesticides)</td>
<td>Dieldrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-alpha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-beta</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCH-delta</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lindane (HCH-gamma)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,4'-DDT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4'-DDT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor Epoxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>alpha-Chlorodane</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>gamma-Chlorodane</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexachlorobenzene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPET013</td>
<td>Napropamid</td>
<td>Each analyte at 1000µg/ml in 9:1 Acetonitrile:Acetone</td>
<td>632.1</td>
<td>1ml</td>
</tr>
<tr>
<td>(2 Compound Mix Pesticides)</td>
<td>Propanil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REPET014</td>
<td>Bromacil</td>
<td>Each analyte at 1000µg/ml in high-purity Acetone</td>
<td>633</td>
<td>1ml</td>
</tr>
<tr>
<td>(7 Compound Mix Pesticides)</td>
<td>DEET</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexazinone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metribuzin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Terbacil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Triadimefon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tricyclazole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------</td>
<td>--------------------------------</td>
<td>----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPET015</td>
<td>Fenarimol</td>
<td>Each analyte at 1000µg/ml</td>
<td>633.1</td>
<td>1ml</td>
</tr>
<tr>
<td>(5 Compound)</td>
<td>MGK 624-A</td>
<td>in high-purity Methanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mix Pesticides</td>
<td>MGK 624-B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MGK 326</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pronamid</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPET016</td>
<td>Butylate</td>
<td>Each analyte at 1000µg/ml</td>
<td>634</td>
<td>1ml</td>
</tr>
<tr>
<td>(6 Compound)</td>
<td>Cycloate</td>
<td>in high-purity Methanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mix Pesticides</td>
<td>EPTC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Molinate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pebulate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vernolate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPET018</td>
<td>Alachlor</td>
<td>Each analyte at 100µg/ml</td>
<td>Not applicable</td>
<td>1ml</td>
</tr>
<tr>
<td>(8 Compound)</td>
<td>Chloropyrifos</td>
<td>in high-purity Cyclohexane</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mix Pesticides</td>
<td>Chlorfenvinphos</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trifluralin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Atrazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Symazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------</td>
<td>----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPETO24</td>
<td>Atrazine</td>
<td>Each analyte at 100µg/ml in high-purity Methanol</td>
<td>Not applicable</td>
<td>1ml</td>
</tr>
<tr>
<td>(18 Compound Mix Pesticides)</td>
<td>Simazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Desisopropyl atrazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Desethyl atrazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Desethyl terbutylazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Propazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metribuzin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Terbutylazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prometryn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Terbutryn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pendimethalin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trifluralin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Propachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acetochlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metolachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorpyrifos</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorfenvinphos</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPETO25</td>
<td>Atrazine</td>
<td>Each analyte at 10µg/ml in high-purity Acetonitrile</td>
<td>Not applicable</td>
<td>1ml</td>
</tr>
<tr>
<td>(22 Compound Mix Pesticides)</td>
<td>Atrazine-desethyl</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Atrazine-desisopropyl</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carbofuran</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chloridazon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cyanazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dimethoate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diuron</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hexazinone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Isoproturon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Linuron</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metamitron</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methabenzthiazuron</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metribuzin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pirimicarb</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prochloraz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Propiconazole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Propyzamide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Simazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Terbutylazine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Terbutylazine-desethyl</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Triadimenol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>US EPA Methods</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>REPET026</td>
<td>Aldrin</td>
<td>Each analyte at 100µg/ml in high-purity Methanol</td>
<td>617 505</td>
<td>1ml</td>
</tr>
<tr>
<td>(4 Compound Mix Pesticides)</td>
<td>Dieldrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Endrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heptachlor</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPET027</td>
<td>Cypermethrin</td>
<td>Each analyte at 100µg/ml in high-purity n-Hexane</td>
<td>Not applicable</td>
<td>1ml</td>
</tr>
<tr>
<td>(7 Compound Mix Pesticides)</td>
<td>Deltamethrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fenvalerate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fenpropathrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lambda-cyhalothrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cyfluthrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bifenthrin</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Toxaphene/Chlordane High & Low Concentration Standards**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>US EPA Methods</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECLC001</td>
<td>Technical Chlordane</td>
<td>200ug/ml in high purity Hexane</td>
<td>625 8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>RECLC001-H</td>
<td>Technical Chlordane</td>
<td>1000ug/ml in high purity Hexane</td>
<td>625 8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>RETOX001</td>
<td>Toxaphene</td>
<td>200ug/ml in high purity Hexane</td>
<td>625 8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>RETOX001-H</td>
<td>Toxaphene</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625 8270C</td>
<td>1ml</td>
</tr>
</tbody>
</table>
## Pesticide Single Component Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration µg/ml</th>
<th>Packed in Ampoule</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPET101</td>
<td>4,4'-DDD</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET101N</td>
<td>4,4'-DDD</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET102</td>
<td>4,4'-DDE</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET102N</td>
<td>4,4'-DDE</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET103</td>
<td>4,4'-DDT</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET103N</td>
<td>4,4'-DDT</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET104</td>
<td>Alachlor</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET104N</td>
<td>Alachlor</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET105</td>
<td>Aldrin</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET105N</td>
<td>Aldrin</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET106</td>
<td>alpha-Chlorodane</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET106N</td>
<td>alpha-Chlorodane</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET107</td>
<td>Ametyn</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET107N</td>
<td>Ametyn</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET108</td>
<td>Atraton</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET108N</td>
<td>Atraton</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET109</td>
<td>Atrazine</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET109N</td>
<td>Atrazine</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET110</td>
<td>Bromacil</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET110N</td>
<td>Bromacil</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET111</td>
<td>Butachlor</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET111N</td>
<td>Butachlor</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET112</td>
<td>Carboxin</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET112N</td>
<td>Carboxin</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET113</td>
<td>Chlordane</td>
<td>1000ug/ml in Hexane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET113N</td>
<td>Chlordane</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET114</td>
<td>Chlorobenzilate</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET114N</td>
<td>Chlorobenzilate</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET115</td>
<td>Chloroneb</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET115N</td>
<td>Chloroneb</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET116</td>
<td>Chlorothalonil</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET116N</td>
<td>Chlorothalonil</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET117</td>
<td>Chloropropan</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET117N</td>
<td>Chloropropan</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET118</td>
<td>cis-Nonachlor</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET118N</td>
<td>cis-Nonachlor</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET119</td>
<td>cis-Permethrin</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET119N</td>
<td>cis-Permethrin</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET120</td>
<td>Cyanazine</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------</td>
<td>-------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPET120N</td>
<td>Cyanazine</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET121</td>
<td>DCPA (Propanil)</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET121N</td>
<td>DCPA (Propanil)</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET122</td>
<td>Diazinon</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET122N</td>
<td>Diazinon</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET123</td>
<td>Dichlorvos</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET123N</td>
<td>Dichlorvos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET124</td>
<td>Dieldrin</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET124N</td>
<td>Dieldrin</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET125</td>
<td>Diphenamid</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET125N</td>
<td>Diphenamid</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET126</td>
<td>Disulfoton Sulfone</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET126N</td>
<td>Disulfoton Sulfone</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET127</td>
<td>Disulfoton Sulfoxide</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET127N</td>
<td>Disulfoton Sulfoxide</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET128</td>
<td>Disulfoton</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET128N</td>
<td>Disulfoton</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET129</td>
<td>Endosulfan I</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET129N</td>
<td>Endosulfan I</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET130</td>
<td>Endosulfan II</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET130N</td>
<td>Endosulfan II</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET131</td>
<td>Endosulfan Sulfate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET131N</td>
<td>Endosulfan Sulfate</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET132</td>
<td>Endrin</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET132N</td>
<td>Endrin</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET133</td>
<td>Endrin Aldehyde</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET133N</td>
<td>Endrin Aldehyde</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET134</td>
<td>EPTC</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET134N</td>
<td>EPTC</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET135</td>
<td>Ethoprop</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET135N</td>
<td>Ethoprop</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET136</td>
<td>Etridiazole</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET136N</td>
<td>Etridiazole</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET137</td>
<td>Fenamiphos</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET137N</td>
<td>Fenamiphos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET138</td>
<td>Fenarimol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET138N</td>
<td>Fenarimol</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET139</td>
<td>gamma-Chlorodane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET139N</td>
<td>gamma-Chlorodane</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET140</td>
<td>HCH-alpha</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET140N</td>
<td>HCH-alpha</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET141</td>
<td>HCH-beta</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------</td>
<td>--------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPET141N</td>
<td>HCH-beta</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET142</td>
<td>HCH-delta</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET142N</td>
<td>HCH-delta</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET143</td>
<td>Heptachlor</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET143N</td>
<td>Heptachlor</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET144</td>
<td>Heptachlor Epoxide</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET144N</td>
<td>Heptachlor Epoxide</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET145</td>
<td>Hexachlorobenzene</td>
<td>1000ug/ml in Benzene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET145N</td>
<td>Hexachlorobenzene</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET146</td>
<td>Hexachlorocyclopentadiene</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET146N</td>
<td>Hexachlorocyclopentadiene</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET147</td>
<td>Hexazinone</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET147N</td>
<td>Hexazinone</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET148</td>
<td>Lindane (HCH-gamma)</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET148N</td>
<td>Lindane (HCH-gamma)</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET149</td>
<td>Methoxychlor</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET149N</td>
<td>Methoxychlor</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET150</td>
<td>Methyl Paraaxon</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET150N</td>
<td>Methyl Paraaxon</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET151</td>
<td>Metolachlor</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET151N</td>
<td>Metolachlor</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET152</td>
<td>Metribuzin</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET152N</td>
<td>Metribuzin</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET153</td>
<td>Mevinphos</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET153N</td>
<td>Mevinphos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET154</td>
<td>Molinate</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET154N</td>
<td>Molinate</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET155</td>
<td>Napropamide</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET155N</td>
<td>Napropamide</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET156</td>
<td>Norflurazon</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET156N</td>
<td>Norflurazon</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET157</td>
<td>Pebulate</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET157N</td>
<td>Pebulate</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET158</td>
<td>Prometon</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET158N</td>
<td>Prometon</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET159</td>
<td>Prometryn</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET159N</td>
<td>Prometryn</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET160</td>
<td>Pronamide (Propyzamide)</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET160N</td>
<td>Pronamide (Propyzamide)</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET161</td>
<td>Propachlor</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET161N</td>
<td>Propachlor</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET162</td>
<td>Propazine</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPET162N</td>
<td>Propazine</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET163</td>
<td>Simazine</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET163N</td>
<td>Simazine</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET164</td>
<td>Simetryn</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET164N</td>
<td>Simetryn</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET165</td>
<td>Stirofos (Tetrachlorvinphos)</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET165N</td>
<td>Stirofos (Tetrachlorvinphos)</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET166</td>
<td>Tebuthiuron</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET166N</td>
<td>Tebuthiuron</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET167</td>
<td>Terbacil</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET167N</td>
<td>Terbacil</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET168</td>
<td>Terbufos</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET168N</td>
<td>Terbufos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET169</td>
<td>Terbutryn</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET169N</td>
<td>Terbutryn</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET170</td>
<td>Toxaphene (Camphechlor)</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET170N</td>
<td>Toxaphene (Camphechlor)</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET171</td>
<td>trans-Nonachlor</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET171N</td>
<td>trans-Nonachlor</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET172</td>
<td>trans-Permethrin</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET172N</td>
<td>trans-Permethrin</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET173</td>
<td>Triadimefon</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET173N</td>
<td>Triadimefon</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET174</td>
<td>Tricyclazole</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET174N</td>
<td>Tricyclazole</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET175</td>
<td>Trifuluralin</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET175N</td>
<td>Trifuluralin</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET176</td>
<td>Azinphos-ethyl</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET176N</td>
<td>Azinphos-ethyl</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET177</td>
<td>Azinphos-methyl</td>
<td>1000ug/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET177N</td>
<td>Azinphos-methyl</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET178</td>
<td>Bromophos Methyl</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET178N</td>
<td>Bromophos Methyl</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET179</td>
<td>Carbophenothon</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET179N</td>
<td>Carbophenothon</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET180</td>
<td>Chlorpyrifos</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET180N</td>
<td>Chlorpyrifos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET181</td>
<td>Chlorpyrifos-methyl</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET181N</td>
<td>Chlorpyrifos-methyl</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET182</td>
<td>Dimethoate</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET182N</td>
<td>Dimethoate</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET183</td>
<td>Ethion</td>
<td>1000ug/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------</td>
<td>-----------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPET183N</td>
<td>Ethion</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET184</td>
<td>Fonophos</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET184N</td>
<td>Fonophos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET185</td>
<td>Malathion</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET185N</td>
<td>Malathion</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET186</td>
<td>Methidathion</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET186N</td>
<td>Methidathion</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET187</td>
<td>Parathion</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET187N</td>
<td>Parathion-ethyl</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET188</td>
<td>Parathion-ethyl</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET188N</td>
<td>Parathion-ethyl</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET189</td>
<td>Pyrimiphos-ethyl</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET189N</td>
<td>Pyrimiphos-ethyl</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET190</td>
<td>Pyrimiphos-methyl</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET190N</td>
<td>Pyrimiphos-methyl</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET191</td>
<td>2,2-DDE</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET191N</td>
<td>2,2-DDE</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET192</td>
<td>2,4-DDE</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET192N</td>
<td>2,4-DDE</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET193</td>
<td>2,4-DDT</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET193N</td>
<td>2,4-DDT</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET194</td>
<td>2,4-DDD</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET194N</td>
<td>2,4-DDD</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET300</td>
<td>1,2-Diphenylhydrazine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET300N</td>
<td>1,2-Diphenylhydrazine</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET301</td>
<td>1,2-Diphenylhydrazine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET302</td>
<td>1,4-Phenylenediamine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET302N</td>
<td>1,4-Phenylenediamine</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET303</td>
<td>1,4-Phenylenediamine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET304</td>
<td>5,5-Diphenylhydantoin</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET304N</td>
<td>5,5-Diphenylhydantoin</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET305</td>
<td>5,5-Diphenylhydantoin</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET306</td>
<td>Barban</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET306N</td>
<td>Barban</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET307</td>
<td>Barban</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET308</td>
<td>Bromoxynil</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET308N</td>
<td>Bromoxynil</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET309</td>
<td>Bromoxynil</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET310</td>
<td>Captafol</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET310N</td>
<td>Captafol</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET311</td>
<td>Captafol</td>
<td>2000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET312</td>
<td>Captan</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------</td>
<td>-------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPET312N</td>
<td>Captan</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET313</td>
<td>Captan</td>
<td>2000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET314</td>
<td>Carbaryl</td>
<td>1000µg/ml in Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET314N</td>
<td>Carbaryl</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET315</td>
<td>Carbofuran</td>
<td>2000µg/ml in Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET316</td>
<td>Carbofuran</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET316N</td>
<td>Carbofuran</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET321</td>
<td>Chlor dane (NOS)</td>
<td>2000µg/ml in Hexane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET321N</td>
<td>Chlor dane (NOS)</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET322</td>
<td>Chlorfenvinphos</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET322N</td>
<td>Chlorfenvinphos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET323</td>
<td>Chlorfenvinphos</td>
<td>2000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET324</td>
<td>Coumaphos</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET324N</td>
<td>Coumaphos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET325</td>
<td>Coumaphos</td>
<td>2000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET326</td>
<td>Crot oxyphos</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET326N</td>
<td>Crot oxyphos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET327</td>
<td>Crot oxyphos</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET328</td>
<td>Demeton O</td>
<td>1000µg/ml in Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET328N</td>
<td>Demeton O</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET329</td>
<td>Demeton O</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET330</td>
<td>Demeton O</td>
<td>2000µg/ml in Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET331</td>
<td>Demeton O</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET332</td>
<td>Demeton-S</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET332N</td>
<td>Demeton-S</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET333</td>
<td>Demeton-S</td>
<td>2000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET334</td>
<td>Di llate (cis or trans)</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET334N</td>
<td>Di llate (cis or trans)</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET335</td>
<td>Di llate (cis or trans)</td>
<td>2000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET336</td>
<td>Dichlone</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET336N</td>
<td>Dichlone</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET337</td>
<td>Dichlone</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET338</td>
<td>Dicrotophos</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET338N</td>
<td>Dicrotophos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET339</td>
<td>Dicrotophos</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET340</td>
<td>Dinocap</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET340N</td>
<td>Dinocap</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET341</td>
<td>Dinocap</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET342</td>
<td>Dioxathion</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET342N</td>
<td>Dioxathion</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET343</td>
<td>Dioxathion</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET344</td>
<td>Diphenylamine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------</td>
<td>---------------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPET344N</td>
<td>Diphenylamine Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET345</td>
<td>Diphenylamine 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET346</td>
<td>EPN 1000µg/ml in Acetone</td>
<td></td>
<td>1ml</td>
</tr>
<tr>
<td>REPET346N</td>
<td>EPN Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET347</td>
<td>EPN 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET348</td>
<td>EPN 2000µg/ml in Acetone</td>
<td></td>
<td>1ml</td>
</tr>
<tr>
<td>REPET349</td>
<td>EPN 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET350</td>
<td>Ethyl carbamate (urethane) 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET350N</td>
<td>Ethyl carbamate (urethane) Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET351</td>
<td>Ethyl carbamate (urethane) 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET352</td>
<td>Ethyl methanesulfonate 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET352N</td>
<td>Ethyl methanesulfonate Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET353</td>
<td>Ethyl methanesulfonate 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET354</td>
<td>Famphur 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET354N</td>
<td>Famphur Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET355</td>
<td>Famphur 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET356</td>
<td>Fensulfothion 1000µg/ml in Acetone</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET356N</td>
<td>Fensulfothion Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET357</td>
<td>Fensulfothion 2000µg/ml in Acetone</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET358</td>
<td>Fenthion 1000µg/ml in Acetone</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET358N</td>
<td>Fenthion Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET359</td>
<td>Fenthion 2000µg/ml in Acetone</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET360</td>
<td>Fluchloralin 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET360N</td>
<td>Fluchloralin Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET361</td>
<td>Fluchloralin 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET362</td>
<td>Isodrin 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET362N</td>
<td>Isodrin Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET363</td>
<td>Isodrin 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET364</td>
<td>Isophorone 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET364N</td>
<td>Isophorone Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET365</td>
<td>Isophorone 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET366</td>
<td>Isosafrole 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET366N</td>
<td>Isosafrole Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET367</td>
<td>Isosafrole 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET368</td>
<td>Kepone 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET368N</td>
<td>Kepone Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET369</td>
<td>Kepone 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET370</td>
<td>Leptophos 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET370N</td>
<td>Leptophos Neat</td>
<td></td>
<td>10mg</td>
</tr>
<tr>
<td>REPET371</td>
<td>Leptophos 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET372</td>
<td>Malathion 1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REPET373</td>
<td>Malathion 2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------</td>
<td>--------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>REPET374</td>
<td>Methyl methanesulfonate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET374N</td>
<td>Methyl methanesulfonate</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET375</td>
<td>Methyl methanesulfonate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET376</td>
<td>Mexacarbate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET376N</td>
<td>Mexacarbate</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET377</td>
<td>Mexacarbate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET378</td>
<td>Mirex</td>
<td>1000µg/ml in Hexane:Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET378N</td>
<td>Mirex</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET379</td>
<td>Mirex</td>
<td>2000µg/ml in Hexane:Toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET380</td>
<td>Monocrotophos</td>
<td>1000µg/ml in Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET380N</td>
<td>Monocrotophos</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET381</td>
<td>Monocrotophos</td>
<td>2000µg/ml in Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET382</td>
<td>Naled</td>
<td>1000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET382N</td>
<td>Naled</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET383</td>
<td>Naled</td>
<td>2000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET384</td>
<td>Nitrofen</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET384N</td>
<td>Nitrofen</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET385</td>
<td>Nitrofen</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET386</td>
<td>O,O,O-Triethyl phosphorothioate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET386N</td>
<td>O,O,O-Triethyl phosphorothioate</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET387</td>
<td>O,O,O-Triethyl phosphorothioate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET388</td>
<td>Octamethyl pyrophosphoramide</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET388N</td>
<td>Octamethyl pyrophosphoramide</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET389</td>
<td>Octamethyl pyrophosphoramide</td>
<td>2000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET390</td>
<td>Parathion</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET391</td>
<td>Parathion</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET392</td>
<td>Pentachlorobenzene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET392N</td>
<td>Pentachlorobenzene</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET393</td>
<td>Pentachlorobenzene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET394</td>
<td>Pentachloronitrobenzene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET394N</td>
<td>Pentachloronitrobenzene</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET395</td>
<td>Pentachloronitrobenzene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET396</td>
<td>Phorate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET396N</td>
<td>Phorate</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET397</td>
<td>Phorate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET398</td>
<td>Phosalone</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET398N</td>
<td>Phosalone</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET399</td>
<td>Phosalone</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET400</td>
<td>Phosphamidon</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET400N</td>
<td>Phosphamidon</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET401</td>
<td>Phosphamidon</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET402</td>
<td>Strychnine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration µg/ml</td>
<td>Packed in Ampoule</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>---------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>REPET402N</td>
<td>Strychnine</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET403</td>
<td>Strychnine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET404</td>
<td>Thionazine</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET404N</td>
<td>Thionazine</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPET405</td>
<td>Thionazine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET406</td>
<td>Thionazine</td>
<td>2000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET407</td>
<td>Thionazine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
</tbody>
</table>

**CERTIFICATE OF GRAVIMETRIC PREPARATION**

**PRODUCT NO.:** REPET401

**MATURITY:** Single Material

**DONOR:** Methanol

**DATE OF PREPARATION:** 29th January 2010

**EXPRESSED CONCENTRATION:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Exp %</th>
<th>Lab %</th>
<th>Actual µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neat</td>
<td>100%</td>
<td>100%</td>
<td>10mg</td>
</tr>
</tbody>
</table>

**TRACEABILITY IN THE PRODUCTION OF THIS STANDARD**

This product was prepared gravimetrically as a weight standard. The initial mass was weighed on a high-precision, high-accuracy balance, and then adjusted as necessary to provide the desired concentration. The mass was then transferred to a calibrated volumetric container with a known volume. The concentration was then calculated based on the mass of the substance and the volume of the container.

**CALIBRATION OF THE WEIGHING BALANCE**

<table>
<thead>
<tr>
<th>Calibration Date</th>
<th>Calibration Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>27th January 2010</td>
<td>1000 µg/ml</td>
</tr>
</tbody>
</table>

**CALIBRATION OF THE VOLATILITY TESTING APPARATUS**

<table>
<thead>
<tr>
<th>Calibration Date</th>
<th>Calibration Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th April 2013</td>
<td>1000 µg/ml</td>
</tr>
</tbody>
</table>

**SUMMARIZED SPECIFICATIONS**

This product is intended for research and development purposes. It is provided in a sealed, dated container to ensure stability and integrity. Use as directed in the appropriate protocols. Dispose of any unused material in accordance with local regulations.

**Date:** 29th January 2010

*This document is an excerpt from a larger report.***
Azo Dye Metabolite Standards

Introduction

Azo-dyes are a large class of synthetic organic dyes that contain nitrogen in the form of an azo group (-N=N-), as part of their molecular structures. They are used in many areas such as the food, cosmetic, textile, leather, nutrition, plastic and pharmaceutical industries. During the past 50 years, the amount of azo-dyes used in foods has increased by 500%. When compared to natural dyes, synthetic food dyes provide many advantages. Synthetic dyes are cheaper, more easily available, last longer and can achieve colour and hue variations otherwise not possible using natural colourants. They also provide superior colour fastness and colour intensity.

However, since the use of synthetic food colouring has become widespread, many allergic and other immune reaction disorders, have increasingly been reported. The reductive cleavage of the azo bond leads to the formation of aromatic amines which may be mutagenic, carcinogenic or allergenic. For instance, acid red 85 and direct blue 6, are both capable of reductively splitting to produce carcinogenic benzidine. Likewise, Sudan II and disperse yellow 7 are capable of splitting to form p-phenylenediamine and aniline, while disperse orange 3 can split only to p-phenylenediamine. (1)

Legislation

Colour Directive 94/36/EC outlines the permitted natural and synthetic colours with their approved applications and limits in different foodstuffs (Commission, 1994) and the use of azo-dyes which can be reduced into toxic amines is prohibited in Europe, US and many other countries. The safety of food colours and other food additives in the EU is evaluated by the European Food Safety Authority (EFSA). Since 2009, the expert Scientific Panel of EFSA assess all of the permitted food colours (45 in total) which had been approved for use in the EU giving priority to those synthetically produced and then to those obtained from natural sources mainly carotenoids. Since new scientific data became available, there have been changes in the legislation, many additives which were initially authorised for used in the past, are currently not permitted in food products in the EU. Unfortunately, there are reports of food adulteration by using dyes unauthorised for food which are often hazardous.

Illegal Adulteration

There have been many notifications from several EU Member States via the Rapid Alert System for Food and Feed (RASFF) of the occurrence of Sudan I, II, III and IV, para red, rhodamine b, and orange 2 in chilli and curry powder and processed products containing chilli or curry powder, sumac, curcuma and palm oil among others. There have also been occurrences of azo dyes released from clothing and textiles, which may be accidently ingested intradermically or orally by people wearing such clothes. Textile workers are also at risk.

Metabolite Standards

Efficient analytical methods for the determination of food colorants are of utmost importance since their illegal presence in food threatens consumer’s safety. Up to now, most methods are focused to detect dyes so far found illegally present in food. There are no methods focused in the detection of aromatic amines derived from azo dyes which may potentially appear illegally in food and show carcinogenic effects in humans.

In a study funded by and participated in by scientists in Reagecon, we have taken account of this consideration and have tried to fill this void. For example, we have provided and published a rapid, accurate and precise method for the identification and quantification of various synthetic food colourant products in paprika. As always, our principle role has been to characterise, purify, validate and offer high quality standards for these products and disseminate these into the marketplace. Further details can be found at www.reagecon.com

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Analyte</th>
<th>Concentration &amp; Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REAZO001</td>
<td>2,4-Diaminoanisole</td>
<td>1000µg/ml in HPLC Water</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO002</td>
<td>2,4-Diaminoanisole</td>
<td>2000µg/ml in HPLC Water</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO003</td>
<td>2,4-Diaminotoluene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO004</td>
<td>2,4-Diaminotoluene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO005</td>
<td>3,3-Dichlorobenzidine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO006</td>
<td>3,3-Dichlorobenzidine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO007</td>
<td>3,3-Dimethoxybenzidine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO008</td>
<td>3,3-Dimethoxybenzidine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO009</td>
<td>3-Aminobiphenyl</td>
<td>1000µg/ml in Ethyl Acetate</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO010</td>
<td>3-Aminobiphenyl</td>
<td>2000µg/ml in Ethyl Acetate</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO011</td>
<td>4,4-Diaminodiphenylmethane</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO012</td>
<td>4,4-Diaminodiphenylmethane</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO013</td>
<td>4,4-Methylenedibenzidine (2-chloroaniline)</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO014</td>
<td>4,4-Methylenedibenzidine (2-chloroaniline)</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO015</td>
<td>4-Aminoazotoluene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO016</td>
<td>4-Aminoazotoluene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO017</td>
<td>4-Aminobiphenyl</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO018</td>
<td>4-Aminobiphenyl</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO019</td>
<td>4-Chloroaniline</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO020</td>
<td>4-Chloroaniline</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO021</td>
<td>5-Nitro-o-toluidine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO022</td>
<td>5-Nitro-o-toluidine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO023</td>
<td>Anilazine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO024</td>
<td>Anilazine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO025</td>
<td>Azobenzene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO026</td>
<td>Azobenzene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO027</td>
<td>Benzidine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO028</td>
<td>Benzidine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO029</td>
<td>Dimethylaminoazobenzene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO030</td>
<td>Dimethylaminoazobenzene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO031</td>
<td>o-anisidine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO032</td>
<td>o-anisidine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO033</td>
<td>o-Toluidine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO034</td>
<td>o-Toluidine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO035</td>
<td>Aniline</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO036</td>
<td>Aniline</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO037</td>
<td>p-phenylenediamine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO038</td>
<td>p-phenylenediamine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO039</td>
<td>2-Nitroalnine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO040</td>
<td>2-Nitroalnine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO041</td>
<td>3-Nitroalnine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO042</td>
<td>3-Nitroalnine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO043</td>
<td>4-Nitroalnine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REAZO044</td>
<td>4-Nitroalnine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
</tbody>
</table>
Fatty Acid Methyl Ester & Fatty Acid Ethyl Ester Standards (FAME & FAEEs)

Free fatty acids (also referred to as volatile fatty acids or carboxylic acids), in short carbon chains, that are volatile, are typically measured in free form as opposed to Fatty Acid Methyl Esters (FAME’s) using Gas Chromatography (GC). Analysis in free form typically confers the advantage of having easier and faster sample preparation and avoids the formation of derivatisation artefacts. However, free fatty acids may be difficult to analyse because these highly polar compounds tend to form hydrogen bonds causing column adsorption problems or in the case of unsaturated fatty acids the slight difference between different compounds may be difficult to distinguish without the neutralisation step involved in esterification.

The esterification of fatty acids is an important tool for both characterising fats and oils and for determining the total fat content in foods and foodstuffs. It is also an important technique for assessing the quality and purity of biofuels. Fats are extracted using a non-polar solvent, saponised to acids and analysed by gas chromatography (GC). GC is an important technique for fats and oils analysis because accurate results can be obtained for complex as well as simple sample matrices. Several compendium from organisations such as the Association of Official Agriculture Chemists (AOAC), American Oil Chemists Society (AOCS) and the European Pharmacopoeia (EP) contain derivatisation procedures. FAME’s may be produced from vegetable oils, animal fats or waste cooking oils by transesterification. In this process a glyceride reacts with an alcohol in the presence of a catalyst forming a mixture of fatty acid esters and an alcohol thus producing biodiesel. Using triglycerides as the fat source, results in the production of glycerol.

Rapeseed, sunflower, soybean and palm oils are the most common raw materials used for the production of biodiesel. Using methanol in the transesterification process has the advantage that the resulting glycerol can be separated simultaneously during the transesterification process. When using ethanol, the ethanol needs to be free of water and the oil needs to have a low water content as well, to achieve an easy glycerol separation. Where ethanol is used it is fatty acid ethyl esters (FAEE’s) that are produced. The end products of the transesterification process are raw biodiesel and raw glycerol. After a cleaning step biodiesel is produced. The purified glycerol can be used in the food and cosmetic industries as well as in the electrochemical industry and as a substrate for anaerobic digestion. Reagecon offers several FAME and FAEE individual compounds and mixtures which can be used to calibrate the GC instrument prior to analysis or as Quality Control Materials during analysis. Deuterated versions are also available for use as internal standards. Such products may be offered as neat materials or in pre-prepared liquid matrices.
# Unsaturated Methyl Esters

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration in Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REUFA001N</td>
<td>Methyl cis-9-hexadecenoate (Palmitoleate) C16:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA001S</td>
<td>Methyl cis-9-hexadecenoate (Palmitoleate) C16:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA002N</td>
<td>Methyl trans-9-hexadecenoate C16:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA002S</td>
<td>Methyl trans-9-hexadecenoate C16:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA003N</td>
<td>Methyl cis-6-octadecenoate (Petroselinate) C18:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA003S</td>
<td>Methyl cis-6-octadecenoate (Petroselinate) C18:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA004N</td>
<td>Methyl trans-6-octadecenoate (Petroselaidate) C18:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA004S</td>
<td>Methyl trans-6-octadecenoate (Petroselaidate) C18:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA005N</td>
<td>Methyl cis-9-octadecenoate (Oleate) C18:1 112-62-9</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA005S</td>
<td>Methyl cis-9-octadecenoate (Oleate) C18:1 112-62-9</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA006N</td>
<td>Methyl trans-9-octadecenoate (Elaidate) C18:1 2462-84-2</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA006S</td>
<td>Methyl trans-9-octadecenoate (Elaidate) C18:1 2462-84-2</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA007N</td>
<td>Methyl cis-11-octadecenoate (Vaccenate) C18:1 1937-63-9</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA007S</td>
<td>Methyl cis-11-octadecenoate (Vaccenate) C18:1 1937-63-9</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA008N</td>
<td>Methyl 12-hydroxy-cis-9-octadecenoate (Ricinoleate) C18:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA008S</td>
<td>Methyl 12-hydroxy-cis-9-octadecenoate (Ricinoleate) C18:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA010N</td>
<td>Methyl linoleate (Linoleate) C18:2</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA010S</td>
<td>Methyl linoleate (Linoleate) C18:2</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA011N</td>
<td>Methyl linoleaidate (Linoleaidate) C18:2</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA011S</td>
<td>Methyl linoleaidate (Linoleaidate) C18:2</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA012N</td>
<td>Methyl octadecadienoate (Conjugated) C18:2</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA012S</td>
<td>Methyl octadecadienoate (Conjugated) C18:2</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA014N</td>
<td>Methyl linolenate (Linolenate) C18:3</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA014S</td>
<td>Methyl linolenate (Linolenate) C18:3</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA015N</td>
<td>Methyl g-linolenate (Gamma Linolenate) C18:3</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA015S</td>
<td>Methyl g-linolenate (Gamma Linolenate) C18:3</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA016N</td>
<td>Methyl trans-11-eicosenoate C20:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
</tbody>
</table>
## Unsaturated Methyl Esters

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration in Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REUFA016S</td>
<td>Methyl trans-11-eicosenoate C20:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA017N</td>
<td>Methyl cis-8-eicosenoate C20:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA017S</td>
<td>Methyl cis-8-eicosenoate C20:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA018N</td>
<td>Methyl cis-11-eicosenoate C20:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA018S</td>
<td>Methyl cis-11-eicosenoate C20:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA019N</td>
<td>Methyl cis-5-eicosenoate C20:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA019S</td>
<td>Methyl cis-5-eicosenoate C20:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA020N</td>
<td>Methyl cis-11,14-eicosadienoate C20:2</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA020S</td>
<td>Methyl cis-11,14-eicosadienoate C20:2</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA022N</td>
<td>Methyl cis-8,11,14-eicosaatrienoate (Homogamma linolenate) C20:3</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA022S</td>
<td>Methyl cis-8,11,14-eicosaatrienoate (Homogamma linolenate) C20:3</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA023N</td>
<td>Methyl cis-11,14,17-eicosaatrienoate C20:3</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA023S</td>
<td>Methyl cis-11,14,17-eicosaatrienoate C20:3</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA024N</td>
<td>Methyl arachidonate (Arachidonate) C20:4</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA024S</td>
<td>Methyl arachidonate (Arachidonate) C20:4</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA025N</td>
<td>Methyl 5,8,11,14,17-Eicosapentaenoate C20:5</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA025S</td>
<td>Methyl 5,8,11,14,17-Eicosapentaenoate C20:5</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA026N</td>
<td>Methyl cis-7,10,13,16,19-Docosapentaenoate (DPA) C22:5</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA026S</td>
<td>Methyl cis-7,10,13,16,19-Docosapentaenoate (DPA) C22:5</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA027N</td>
<td>Methyl cis-13-docosenoate (Erucate) C22:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA027S</td>
<td>Methyl cis-13-docosenoate (Erucate) C22:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA028N</td>
<td>Methyl trans-13-docosenoate (Brassidate) C22:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA028S</td>
<td>Methyl trans-13-docosenoate (Brassidate) C22:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA029N</td>
<td>Methyl cis-13,16-docosadienoate C22:2</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA029S</td>
<td>Methyl cis-13,16-docosadienoate C22:2</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA030N</td>
<td>Methyl cis-13,16,19-docosatrienoate C22:3</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA030S</td>
<td>Methyl cis-13,16,19-docosatrienoate C22:3</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA031N</td>
<td>Methyl cis-7,10,13,16-Docosatetraenoate C22:4</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA031S</td>
<td>Methyl cis-7,10,13,16-Docosatetraenoate C22:4</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA032N</td>
<td>Methyl cis-4,7,10,13,16,19-Docosahexenoate C22:6</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA032S</td>
<td>Methyl cis-4,7,10,13,16,19-Docosahexenoate C22:6</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>REUFA033N</td>
<td>Methyl cis-15-tetracosenoate (Nervonate) C24:1</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REUFA033S</td>
<td>Methyl cis-15-tetracosenoate (Nervonate) C24:1</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
</tbody>
</table>
## Saturated Methyl Esters

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration in Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESFA001N</td>
<td>Methylstearate (Caprylate) C8:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA001S</td>
<td>Methylstearate (Caprylate) C8:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA002N</td>
<td>Methyldecanoate (Caprate) C10:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA002S</td>
<td>Methyldecanoate (Caprate) C10:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA003N</td>
<td>Methyldecanoate (Caprate) C10:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA003S</td>
<td>Methyldecanoate (Caprate) C10:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA004N</td>
<td>Methylundecanoate C11:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA004S</td>
<td>Methylundecanoate C11:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA005N</td>
<td>Methylundecanoate (Laurate) C12:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA005S</td>
<td>Methylundecanoate (Laurate) C12:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA006N</td>
<td>Methyltridecanoate C13:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA006S</td>
<td>Methyltridecanoate C13:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA007N</td>
<td>Methyltetradecanoate (Myristate) C14:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA007S</td>
<td>Methyltetradecanoate (Myristate) C14:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA008N</td>
<td>Methylpentadecanoate C15:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA008S</td>
<td>Methylpentadecanoate C15:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA009N</td>
<td>Methylhexadecanoate (Palmitate) C16:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA009S</td>
<td>Methylhexadecanoate (Palmitate) C16:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA010N</td>
<td>Methylheptadecanoate (Margarate) C17:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA010S</td>
<td>Methylheptadecanoate (Margarate) C17:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA011N</td>
<td>Methyloctadecanoate (Stearate) C18:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA011S</td>
<td>Methyloctadecanoate (Stearate) C18:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA012N</td>
<td>Methyl 12-hydroxystearate C18:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA012S</td>
<td>Methyl 12-hydroxystearate C18:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA013N</td>
<td>Methylnonadecanoate C19:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA013S</td>
<td>Methylnonadecanoate C19:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA014N</td>
<td>Methylleicosanoate (Arachidate) C20:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA014S</td>
<td>Methylleicosanoate (Arachidate) C20:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA015N</td>
<td>Methylheneicosanoate C21:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA015S</td>
<td>Methylheneicosanoate C21:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA016N</td>
<td>Methyltetragoanoate (Behenate) C22:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA016S</td>
<td>Methyltetragoanoate (Behenate) C22:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA017N</td>
<td>Methyltricosanoate C23:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA017S</td>
<td>Methyltricosanoate C23:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
<tr>
<td>RESFA018N</td>
<td>Methyltetragoanoate (Lignocerate) C24:0</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>RESFA018S</td>
<td>Methyltetragoanoate (Lignocerate) C24:0</td>
<td>10000µg/ml in Heptane</td>
<td>1ml</td>
</tr>
</tbody>
</table>
# Fatty Acid Ethyl Esters

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration in Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REFAEE001N</td>
<td>Ethyl palmitoleate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE001S</td>
<td>Ethyl palmitoleate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE002N</td>
<td>Ethyl caprylate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE002S</td>
<td>Ethyl caprylate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE003N</td>
<td>Ethyl caprate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE003S</td>
<td>Ethyl caprate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE004N</td>
<td>Ethyl caprate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE004S</td>
<td>Ethyl caprate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE005N</td>
<td>Ethyl myristate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE005S</td>
<td>Ethyl myristate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE006N</td>
<td>Ethyl palmitate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE006S</td>
<td>Ethyl palmitate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE007N</td>
<td>Ethyl stearate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE007S</td>
<td>Ethyl stearate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE008N</td>
<td>Ethyl arachidate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE008S</td>
<td>Ethyl arachidate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE009N</td>
<td>Ethyl behenate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE009S</td>
<td>Ethyl behenate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE010N</td>
<td>Ethyl lignocerate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE010S</td>
<td>Ethyl lignocerate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE011N</td>
<td>Ethyl erucate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE011S</td>
<td>Ethyl erucate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE012N</td>
<td>Ethyl linoleate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE012S</td>
<td>Ethyl linoleate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE013N</td>
<td>Ethyl nervonate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE013S</td>
<td>Ethyl nervonate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE014N</td>
<td>Ethyl oleate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE014S</td>
<td>Ethyl oleate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE015N</td>
<td>Ethyl heptadecanoate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE015S</td>
<td>Ethyl heptadecanoate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
<tr>
<td>REFAEE016N</td>
<td>Ethyl linolenate Neat</td>
<td>100mg</td>
<td></td>
</tr>
<tr>
<td>REFAEE016S</td>
<td>Ethyl linolenate 10mg/ml in Hexane</td>
<td>1ml</td>
<td></td>
</tr>
</tbody>
</table>

Should you require FAMES or FAEEs in deuterated form, please email sales@reagecon.ie
FAME Calibration Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>% Concentration</th>
<th>Solvent</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REFAME-CAL0.5V-250</td>
<td>FAME</td>
<td>0.5</td>
<td>Cyclohexane</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL1.25V-250</td>
<td>FAME</td>
<td>1.25</td>
<td>Cyclohexane</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL2.5V-250</td>
<td>FAME</td>
<td>2.5</td>
<td>Cyclohexane</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL3.75V-250</td>
<td>FAME</td>
<td>3.75</td>
<td>Cyclohexane</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL5V-250</td>
<td>FAME</td>
<td>5</td>
<td>Cyclohexane</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL7V-250</td>
<td>FAME</td>
<td>7</td>
<td>Cyclohexane</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL2V-250</td>
<td>FAME</td>
<td>2</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL4V-250</td>
<td>FAME</td>
<td>4</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL6V-250</td>
<td>FAME</td>
<td>6</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-ENCAL7V-250</td>
<td>FAME</td>
<td>7</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL10V-250</td>
<td>FAME</td>
<td>10</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL15V-250</td>
<td>FAME</td>
<td>15</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL20V-250</td>
<td>FAME</td>
<td>20</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL25V-250</td>
<td>FAME</td>
<td>25</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>REFAME-CAL30V-250</td>
<td>FAME</td>
<td>30</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
</tbody>
</table>
Nitrosamines are products that are formed by the chemical reaction of amines and nitrogen containing agents such as nitrites, nitrogen oxides or nitrous acids. The products can be detected in air, water, soil, beverages, milk, cosmetics and in the alimentary tract of both humans and animals. Nitrosamines are now classified as known carcinogens and much attention in particular is being paid to the presence of a substance called N-Nitrosodi-Methylamine (NDMA) and several other nitrosamines in drinking water. This substance is accidently produced during a process called chloramination which is used in water treatment plants to reduce or eliminate trihalomethane levels in drinking water.

The occurrence of several nitrosamines including NDMA has been documented in recycled water, effluent, industrial waste and sewage sludge. All of these are sources of groundwater contamination and all have the potential to move from groundwater into the potable water system. NDMA is now considered a priority pollutant and a number of local, national and international authorities have set regulatory guidelines for this and other nitrosamines in drinking water. Apart from NDMA, N-Nitrosomethyethylamine (NMEA), N-Nitrosodiethylamine (NDEA), N-Nitrosopyrrolidine (NPYR), N-Nitrososodi-N-Propylamine (NDPA), N-Nitrosopiperidine (NPIP) and N-Nitrosodi-N-Buthylamine (NDBA) are all considered significant.

Since nitrosamines may only be present in various matrices in ppb or ppt levels a high degree of sensitivity in sample management is necessary to monitor their presence. High quality, pure and well characterised standards are an imperative for successful qualitative and quantitative detection and measurement. Reagecon offers neat, single and multi component Standards for Nitrosamine analysis. These Standards are characterised and screened for identity, purity, stability and homogeneity. The products are prepared and certified gravimetrically and verified using GC-MS.

As for all of Reagecon’s Standards and Certified Reference Materials (CRM’s), the company can produce customised Standards and Private Label options in our Global Metrology Centre in Shannon.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Analyte</th>
<th>Concentration &amp; Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RENIT001</td>
<td>N-Nitrosodiethylamine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT002</td>
<td>N-Nitrosodiethylamine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT003</td>
<td>N-Nitrosodimethylamine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT004</td>
<td>N-Nitrosodiethylamine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT005</td>
<td>N-Nitrosodi-n-propylamine</td>
<td>1000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT006</td>
<td>N-Nitrosodi-n-propylamine</td>
<td>2000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT007</td>
<td>N-Nitrosodiphenylamine</td>
<td>1000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT008</td>
<td>N-Nitrosodiphenylamine</td>
<td>2000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT009</td>
<td>N-Nitrosomethylthylethylamine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT010</td>
<td>N-Nitrosomethylthylethylamine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT011</td>
<td>N-Nitrosomorpholine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT012</td>
<td>N-Nitrosomorpholine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT013</td>
<td>N-Nitrosopiperidine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT014</td>
<td>N-Nitrosopiperidine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT015</td>
<td>N-Nitrosopyrrolidine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RENIT016</td>
<td>N-Nitrosopyrrolidine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
</tbody>
</table>
Polybrominated Biphenyl Standards (PBBs)

Polybrominated biphenyls (PBB’s) which may also be called brominated biphenyls, or polybromobiphenyls, are the bromine analogs of Polychlorinated biphenyls (PCB’s). Like PCB’s, they are man made, hazardous to mammalian health, controlled, or prescribed environmentally but not nearly as commonly used as PCB’s in industrial applications.

Like PCB’s there are 209 possible congeners which differ from each other in the number and position of the bromine atoms in the two phenyl rings. Also like the PCB’s the benzene rings can rotate around the central bond that connects the rings allowing planar and non-planar configurations. These differences in molecular structure are highly relevant in terms of the interaction with different receptors in determining possible toxicological or pathological properties of PBB’s.

The products are used as flame retardants and form a subset of the brominated flame retardant group. The products are added to polymers and fibres and have made their way into several types of consumer goods, including computer peripherals, electrical goods, textiles and some furniture products, always to render them, less flammable. PBB’s are also highly lipophilic and will accumulate in lipid rich tissues. There is significant evidence of hazards to human health from these products which are certainly proven to be absorbed through the gastrointestinal tract. Such pathological effects include evidence of poor neurodevelopment, specific cancers, and hormonal effects on fertility. Some evidence of immunotoxicity has also been reported.

Reagecon is developing a growing offering of PBB congeners mostly in ready to use format in an isooctane matrix. However, customised matrices, mixtures and other concentrations are also available upon request. Some of the congeners are also offered in neat form. For additional information on this rapidly growing range please visit www.reagecon.com
## Native PBBs (polybromobiphenyls)

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPBB001</td>
<td>2-Bromobiphenyl (PBB-1)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB002</td>
<td>3-Bromobiphenyl (PBB-2)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB003</td>
<td>4-Bromobiphenyl (PBB-3)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB004</td>
<td>2,2'-Dibromobiphenyl (PBB-4)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB007</td>
<td>2,4-Dibromobiphenyl (PBB-7)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB009</td>
<td>2,5-Dibromobiphenyl (PBB-9)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB010</td>
<td>2,6-Dibromobiphenyl (PBB-10)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB015</td>
<td>4,4'-Dibromobiphenyl (PBB-15)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB018</td>
<td>2,2',5-Tribromobiphenyl (PBB-18)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB026</td>
<td>2,3',5-Tribromobiphenyl (PBB-26)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB029</td>
<td>2,4,5-Tribromobiphenyl (PBB-29)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB031</td>
<td>2,4',5-Tribromobiphenyl (PBB-31)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB038</td>
<td>3,4,5-Tribromobiphenyl (PBB-38)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB049</td>
<td>2,2',4,5'-Tetrabromobiphenyl (PBB-49)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB052</td>
<td>2,2',5,5'-Tetrabromobiphenyl (PBB-52)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB056</td>
<td>2,2',5,6'-Tetrabromobiphenyl (PBB-56)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB077</td>
<td>3,3',4,4'-Tetrabromobiphenyl (PBB-77)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB080</td>
<td>3,3',5,5'-Tetrabromobiphenyl (PBB-80)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB103</td>
<td>2,2',4,5,6-Pentabromobiphenyl (PBB-103)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB126</td>
<td>3,3',4,5,5'-Pentabromobiphenyl (PBB-126)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB153</td>
<td>2,2',4,5,5'-Hexabromobiphenyl (PBB-153)</td>
<td>50µg/mL in hexane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB155</td>
<td>2,2',4,4',6,6'-Hexabromobiphenyl (PBB-155)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB169</td>
<td>3,3',4,4',5,5'-Hexabromobiphenyl (PBB-169)</td>
<td>10µg/mL in cyclohexane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB189</td>
<td>2,3,3',4,4',5,5'-Heptabromobiphenyl (PBB-189)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB194</td>
<td>2,2',3,3',4,4',5,5'-Octabromobiphenyl (PBB-194)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB203</td>
<td>2,2',3,4,4',5,5',6-Octabromobiphenyl (PBB-203)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB205</td>
<td>2,3,3',4,4',5,5',6-Octabromobiphenyl (PBB-205)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB206</td>
<td>2,2',3,3',4,4',5,5',6-Nonabromobiphenyl (PBB-206)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB209</td>
<td>Decabromobiphenyl (PBB-209)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBB209N</td>
<td>Decabromobiphenyl (PBB-209)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
</tbody>
</table>
Polybrominated Diphenyl Ethers (PBDE’s) & Other Flame Retardant Standards

Polybrominated Diphenyl Ethers (PBDE’s) are a subgroup of the wider brominated flame retardant family. Structurally, they are similar to Polychlorinated Biphenyls (PCB’s) and like PCB’s there are, in total, 209 different congeners or isomers. The compounds are classified according to the average number of Bromine atoms in the molecule.

The congeners occur as mono-, di-, tri-, tetra-, penta-, hexa-, hepta-, octa-, nono-, and decabromodiphenyl ethers and the numbers of each respectively are 3, 12, 24, 42, 46, 42, 24, 12, 3, and 1, all adding up to 209 in total. The three main commercial mixtures that were available on the market include pentaBDE, octaBDE and decaBDE. The pentaBDE mixture contains tetrabromates, hexabromates and traces of tribromates in addition to the pentabromates. OctaBDE includes hexa, hepta, nona and decabromates as well as the octa congeners. There are no known natural sources of PBDE’s, although some evidence exists in the literature that PBDE variants may be produced by marine organisms, but all commercial mixtures were man made.

PBDE’s have been used in a wide variety of products as flame retardants, including building materials, electronics, furnishings, motor vehicles, household appliances, plastics, foams and textiles. Like PCB’s, these products exhibit high lipophilicity and therefore accumulate in fatty tissues. Unlike PCB’s, they are easier to degrade because of the weaker bromine bonds and unlike PCB’s there is less concern about their toxicity upon degradation.

There is evidence from animal studies that PBDE’s are injurious to health, but the evidence is spurious, and specific effects are not clearly elucidated. There is evidence of the products acting as endocrine disruptors, possibilities that they may act as a teratogen and some studies have identified neurodevelopmental toxicity in mice.

Humans may either ingest orally or through the respiratory tract. Waters used in the manufacture of PBDE containing products are at high risk of contamination and pose risks if ingested. Staff in repair or recycling plants are also at risk but inhalation or food ingestion in a domestic context also poses potential health hazards. The products have also been detected in dust, sludge and wastewater effluent and there is no doubt about their ability to bioaccumulate. Detection methods include GC, GC-MS and various LC combinations.

Native PBDEs

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPBDE001</td>
<td>2-Bromodiphenyl ether (PBDE-1)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE002</td>
<td>3-Bromodiphenyl ether (PBDE-2)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE003</td>
<td>4-Bromodiphenyl ether (PBDE-3)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE003N</td>
<td>4-Bromodiphenyl ether (PBDE-3) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPBDE007</td>
<td>2,4-Dibromodiphenyl ether (PBDE-7)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0013</td>
<td>3,4′-Dibromodiphenyl ether (PBDE-13)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0015</td>
<td>4,4′-Dibromodiphenyl ether (PBDE-15)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0015N</td>
<td>4,4′-Dibromodiphenyl ether (PBDE-15) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPBDE0017</td>
<td>2,2′,4-Tribromodiphenyl ether (PBDE-17)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------</td>
<td>---------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPBDE0017N</td>
<td>2,2',4-Tribromodiphenyl ether (PBDE-17)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0025</td>
<td>2,3',4-Tribromodiphenyl ether (PBDE-25)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0025N</td>
<td>2,3',4-Tribromodiphenyl ether (PBDE-25)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0028</td>
<td>2,4,4'-Tribromodiphenyl ether (PBDE-28)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0028N</td>
<td>2,4,4'-Tribromodiphenyl ether (PBDE-28)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0033</td>
<td>3,3',4-Tribromodiphenyl ether (PBDE-33)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0033N</td>
<td>3,3',4-Tribromodiphenyl ether (PBDE-33)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0047</td>
<td>2,2',4,4'-Tetrabromodiphenyl ether (PBDE-47)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0047N</td>
<td>2,2',4,4'-Tetrabromodiphenyl ether (PBDE-47)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0049</td>
<td>2,2',4,5'-Tetrabromodiphenyl ether (PBDE-49)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0049N</td>
<td>2,2',4,5'-Tetrabromodiphenyl ether (PBDE-49)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0066</td>
<td>2,3',4,4'-Tetrabromodiphenyl ether (PBDE-66)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0066N</td>
<td>2,3',4,4'-Tetrabromodiphenyl ether (PBDE-66)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0077</td>
<td>3,3',4,4'-Tetrabromodiphenyl ether (PBDE-77)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0077N</td>
<td>3,3',4,4'-Tetrabromodiphenyl ether (PBDE-77)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0085</td>
<td>2,2',3,4,4'-Pentabromodiphenyl ether (PBDE-85)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0085N</td>
<td>2,2',3,4,4'-Pentabromodiphenyl ether (PBDE-85)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0099</td>
<td>2,2',4,4,5'-Pentabromodiphenyl ether (PBDE-99)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0099N</td>
<td>2,2',4,4,5'-Pentabromodiphenyl ether (PBDE-99)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0100</td>
<td>2,2',4,4,6'-Pentabromodiphenyl ether (PBDE-100)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0100N</td>
<td>2,2',4,4,6'-Pentabromodiphenyl ether (PBDE-100)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0118</td>
<td>2,2',3,4,4',5-Pentachlorobiphenyl ether (PBDE-118)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0119</td>
<td>2,3',4,4',5-Pentabromodiphenyl ether (PBDE-119)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0119N</td>
<td>2,3',4,4',5-Pentabromodiphenyl ether (PBDE-119)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0138</td>
<td>2,2',3,3',4,4',5-Hexabromodiphenyl ether (PBDE-138)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0138N</td>
<td>2,2',3,3',4,4',5-Hexabromodiphenyl ether (PBDE-138)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0153</td>
<td>2,2',4,4,5,5'-Hexabromodiphenyl ether (PBDE-153)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0153N</td>
<td>2,2',4,4,5,5'-Hexabromodiphenyl ether (PBDE-153)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0154</td>
<td>2,2',4,4,5,6'-Hexabromodiphenyl ether (PBDE-154)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0154N</td>
<td>2,2',4,4,5,6'-Hexabromodiphenyl ether (PBDE-154)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0181</td>
<td>2,2',3,3',4,4',5,6-Heptabromodiphenyl ether (PBDE-181)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0183</td>
<td>2,2',3,3',4,4',5,6-Heptabromodiphenyl ether (PBDE-183)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0183N</td>
<td>2,2',3,3',4,4',5,6-Heptabromodiphenyl ether (PBDE-183)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0190</td>
<td>2,3',3,4,4',5,6-Heptabromodiphenyl ether (PBDE-190)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0190N</td>
<td>2,3',3,4,4',5,6-Heptabromodiphenyl ether (PBDE-190)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0195</td>
<td>2,2',3,3',4,4',5,6-Octabromodiphenyl ether (PBDE-195)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0196</td>
<td>2,2',3,3',4,4',5,6-Octabromodiphenyl ether (PBDE-196)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0203</td>
<td>2,2',3,3',4,4',5,6-Octabromodiphenyl ether (PBDE-203)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0203N</td>
<td>2,2',3,3',4,4',5,6-Octabromodiphenyl ether (PBDE-203)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
</tbody>
</table>
## Native PBDEs

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPBDE0205</td>
<td>2,3,3′,4,4′,5,5′,6-Octabromodiphenyl ether (PBDE-205)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0205N</td>
<td>2,3,3′,4,4′,5,5′,6-Octabromodiphenyl ether (PBDE-205)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPBDE0206</td>
<td>2,2′,3,3′,4,4′,5,5′,6-Nonabromodiphenyl ether (PBDE-206)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0207</td>
<td>2,2′,3,3′,4,4′,5,5′,6,6′-Nonabromodiphenyl ether (PBDE-207)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0208</td>
<td>2,2′,3,3′,4,4′,5,5′,6,6′-Nonabromodiphenyl ether (PBDE-208)</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0209</td>
<td>Decabromodiphenyl ether (PBDE-209)</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0209N</td>
<td>Decabromodiphenyl ether (PBDE-209)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
</tbody>
</table>

## Halogenated Flame Retardants

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPBDE0400</td>
<td>2,2-Bis[3,5-dibromo-4-[(2,3-dibromopropoxy)phenyl]propane</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0401</td>
<td>1,2-Bis[2,4,6-tribromophenoxy]ethane</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0402</td>
<td>Butyldiphenylphosphate</td>
<td>1000µg/mL in isopropanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0403</td>
<td>Decabromodiphenylethane</td>
<td>50µg/mL in chlorobenzene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0404</td>
<td>Dechlorane plus</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0405</td>
<td>Dibromoneopentylglycol</td>
<td>50µg/mL in isopropanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0406</td>
<td>Dibutylphenylphosphate</td>
<td>1000µg/mL in isopropanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0407</td>
<td>Ethylene bis(tetrabromophthalimide)</td>
<td>Neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPBDE0408</td>
<td>1,2,3,4,5,6-Hexabromocyclhexane</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0409</td>
<td>1,2,5,6,9,10-Hexabromocyclododecane</td>
<td>1000µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0410</td>
<td>Pentabromoethylbenzene</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0411</td>
<td>3,3′,5,5′-Tetrabromobisphenol A</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0412</td>
<td>2,2′,6,6′-Tetrabromobisphenol A diallyl ether</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0413</td>
<td>3,3′,5,5′-Tetrabromobisphenol A dimethyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0414</td>
<td>3,3′,5,5′-Tetrabromobisphenol A bis(2,3-dibromopropyl) ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0415</td>
<td>3,3′,5,5′-Tetrabromobisphenol A bis(2-hydroxyethyl) ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0416</td>
<td>2,4,6-Tribromophenylallyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0417</td>
<td>Tetrabromophthalic anhydride</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0418</td>
<td>Tetradecabromo-1,4-diphenoxylbenzene</td>
<td>50µg/mL in cyclohexane</td>
<td>1ml</td>
</tr>
</tbody>
</table>
## Flame Retardants / F-PBDE Internal Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPBDE0300</td>
<td>2-Fluorodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0301</td>
<td>4-Fluorodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0302</td>
<td>2,4'-Difluorodiphenyl ether</td>
<td>1000µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0303</td>
<td>3,3'-Difluorodiphenyl ether</td>
<td>1000µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0304</td>
<td>3-Bromo-4'-fluorodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0305</td>
<td>3'-Fluoro-2,4'-dibromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0306</td>
<td>3'-Fluoro-3,4'-dibromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0307</td>
<td>4'-Fluoro-2,3',4'-tribromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0308</td>
<td>4'-Fluoro-2,3',6'-tribromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0309</td>
<td>2'-Fluoro-2,4,4'-tribromodiphenyl ether</td>
<td>50µg/mL in toluene</td>
<td></td>
</tr>
<tr>
<td>REPBDE0310</td>
<td>2'-Fluoro-2,4,4'-tribromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0311</td>
<td>6-Fluoro-2,2',4,4'-tetrabromodiphenyl ether</td>
<td>50µg/mL in toluene</td>
<td></td>
</tr>
<tr>
<td>REPBDE0312</td>
<td>6-Fluoro-2,2',4,4'-tetrabromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0313</td>
<td>5,5'-Difluoro-2,2',4,4'-tetrabromodiphenyl ether</td>
<td>50µg/mL in toluene</td>
<td></td>
</tr>
<tr>
<td>REPBDE0314</td>
<td>5,5'-Difluoro-2,2',4,4'-tetrabromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0315</td>
<td>6-Fluoro-2,3',4,4'-tetrabromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0316</td>
<td>4'-Fluoro-2,3',4,6-tetraiododiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0317</td>
<td>5,6-Difluoro-2,2',3,3',4,4'-pentabromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0318</td>
<td>3,6-Difluoro-2,2',4,4',5-pentabromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0319</td>
<td>3-Fluoro-2,2',4,4',6-pentabromodiphenyl ether</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0320</td>
<td>3-Fluoro-2,2',4,4',6-pentabromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0321</td>
<td>3-Fluoro-2,3',4,4',6-pentabromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0322</td>
<td>3,5-Difluoro-2,3',4,4',6-pentabromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0323</td>
<td>4'-Fluoro-2,3',4,5,6-hexabromodiphenyl ether</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0324</td>
<td>3-Fluoro-2,2',4,4',5,5',6-heptabromodiphenyl ether</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0325</td>
<td>4',6-Difluoro-2,2',3,3',4,5,5',6'-octabromodiphenyl ether</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0326</td>
<td>4'-Fluoro-2,2',3,3',4,5,5',6'-octabromodiphenyl ether</td>
<td>50µg/mL in isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0327</td>
<td>4'-Fluoro-2,2',3,3',4,5,5',6'-octabromodiphenyl ether</td>
<td>50µg/mL in toluene</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------</td>
<td>------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPBDE0500</td>
<td>Bis(2,3-dibromopropyl)phosphate, tech.</td>
<td>50µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0501</td>
<td>Bis(2,3-dibromopropyl)phosphate</td>
<td>50µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0502</td>
<td>Bisphenol A bis(diphenyl)phosphate</td>
<td>50µg/mL in methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0503</td>
<td>9,10-Dihydro-9-Oxa-10-Phospaphenantrone-10-Oxide</td>
<td>50µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0504</td>
<td>2-Ethylhexyldiphenylphosphate</td>
<td>Neat</td>
<td>1g</td>
</tr>
<tr>
<td>REPBDE0505</td>
<td>Isopropylated trisphenyl phosphate (Phenol, isopropylated, phosphate)</td>
<td>Neat</td>
<td>1g</td>
</tr>
<tr>
<td>REPBDE0506</td>
<td>Phenoxyterminated carbonate oligomer of tetrabromobisphenol A</td>
<td>Neat</td>
<td>1g</td>
</tr>
<tr>
<td>REPBDE0507</td>
<td>Polyphosphoric acids ammonium salt</td>
<td>Neat</td>
<td>1g</td>
</tr>
<tr>
<td>REPBDE0508</td>
<td>2,4,6-Tribromophenylterminated tetrabromobisphenol</td>
<td>Neat</td>
<td>1g</td>
</tr>
<tr>
<td>REPBDE0509</td>
<td>Tetraphenyldicorcinol bis(diphenyl)phosphate</td>
<td>50µg/mL in methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0510</td>
<td>Tris-[aziridinyl]-phosphineoxide</td>
<td>100µg/mL in methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0511</td>
<td>Tris-[aziridinyl]-phosphineoxide</td>
<td>500µg/mL in methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0512</td>
<td>Tris(2,3-dibromopropyl)phosphate, tech.</td>
<td>Neat</td>
<td>100mg</td>
</tr>
<tr>
<td>REPBDE0513</td>
<td>Tris(2,3-dibromopropyl)phosphate</td>
<td>50µg/mL in methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0514</td>
<td>Tris(2,3-dichloropropyl)phosphate</td>
<td>1000µg/mL in methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0515</td>
<td>Tris(2-ethylhexyl)phosphate</td>
<td>1000µg/mL in methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0516</td>
<td>Tri-n-butylphosphate-d27</td>
<td>100µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0517</td>
<td>Triethylphosphate-d15</td>
<td>100µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0518</td>
<td>Trimethylphosphate-d9</td>
<td>100µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0519</td>
<td>Triphenylphosphate-d15</td>
<td>100µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPBDE0520</td>
<td>Tri-n-propylphosphate-d21</td>
<td>100µg/mL in isoctane</td>
<td>1ml</td>
</tr>
</tbody>
</table>
Polychlorinated Biphenyl Standards (PCBs)

Introduction
Polychlorinated biphenyls (PCB’s) are man made organic chemicals derived from combining between 1 and 10 chlorine atoms with biphenyls, a molecule that is composed of two benzene rings. When all of the possible positions of the chlorine atoms on the benzene rings are taken into account, a total of 209 configurations are possible and these are called congeners.

Of these 209 congeners about 130 have been used in commercial preparations, since the introduction of the products into the marketplace by a company called Swann Chemical Company, which commenced production in 1929. Synthesis at laboratory scale began in 1881 and from then significant amounts of PCB’s were already being released into the environment.

Applications
The commercial uses of PCB’s were based on the products being good insulators, chemically stable and of low flammability. Therefore, they were used for a range of applications that include: coolants and insulating fluids for capacitors and transformers, hydraulic fluids, cutting oils, copying paper, plasticisers in paints and cements, additives in PVC coatings and as pesticide extenders. They also had a myriad of other commercial uses, description of which is beyond the scope of this document.

Often PCB’s were sold as commercial mixtures under trade names, including Arochlor’s, which is a brand name of Monsanto. Such Aroclor’s had a four digit numbering system, with the first two digits referring to the number of carbons in the two benzene rings (12 in the case of PCB’s) and the second two digits referred to the percentage of chlorine by mass in the mixture, although there are exceptions to this nomenclature. Aroclor’s varied in terms of what they were used for, depending on availability and suitability for particular applications.

Presence in the Environment
PCB’s are highly resistant to oxidation or reduction processes, which makes them stable and persistent pollutants (POPs). They are unstable in water, which makes them more stable in the environment chemically and either intentional or natural destruction may lead to the generation and release of extremely toxic materials such as Dibenzodioxins and Dibenzofurans through partial oxidation.

Many rivers, lakes, buildings and other sites are contaminated by PCB’s and they have been found also in soil and air. Because of their lipophilic properties, they are to be found in foodstuffs and at various points of the food chain.

Health Effects
PCB’s are readily absorbed through skin, but can also be absorbed through polyvinyl chloride (PVC) or latex rubber. However, most human absorption is through the alimentary or respiratory routes and once ingested they may change in chemical structure. One of the physical properties of PCB’s includes lipophilicity which causes bioaccumulation in both adipose tissue and in liver tissue.

Persons exposed to very high levels may experience skin lesions, liver damage, ocular lesions, lowered immunity and irregular menstrual cycles by interference with estradiol. Generalised symptoms can include headaches, fatigue and cough. More severe symptomatic outcomes may include cancers, sexual, skeletal, and mental under-development in both sexes. In fact, evidence of reduced levels of certain thyroid hormones could have an adverse effect on every physiological process within the body.
Analytical Methods

Generally the analytical method of choice for PCB’s is Gas Chromatography using very specific columns and detectors. Reagecon can now offer over 80 of the most commercially sought after PCB standards ready to use in either isooctane or cyclohexane or as neat materials. We can also offer a wide range of PCB mixtures and offer several Aroclor’s in various matrices.

PCB Single Element Congeners

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration in Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPCB1001</td>
<td>4-Chlorobiphenyl (PCB-3)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1001N</td>
<td>4-Chlorobiphenyl (PCB-3) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1002</td>
<td>2,4-Dichlorobiphenyl (PCB-7)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1002N</td>
<td>2,4-Dichlorobiphenyl (PCB-7) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1003</td>
<td>2,4'-Dichlorobiphenyl (PCB-8)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1003N</td>
<td>2,4'-Dichlorobiphenyl (PCB-8) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1004</td>
<td>2,6-Dichlorobiphenyl (PCB-10)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1004N</td>
<td>2,6-Dichlorobiphenyl (PCB-10) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1005</td>
<td>3,5-Dichlorobiphenyl (PCB-14)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1005N</td>
<td>3,5-Dichlorobiphenyl (PCB-14) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1006</td>
<td>4,4'-Dichlorobiphenyl (PCB-15)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1006N</td>
<td>4,4'-Dichlorobiphenyl (PCB-15) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1007</td>
<td>2,2',5-Trichlorobiphenyl (PCB-18)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1007N</td>
<td>2,2',5-Trichlorobiphenyl (PCB-18) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1008</td>
<td>2,3,3'-Trichlorobiphenyl (PCB-20)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1008N</td>
<td>2,3,3'-Trichlorobiphenyl (PCB-20) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1009</td>
<td>2,3,4'-Trichlorobiphenyl (PCB-22)</td>
<td>100µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1009N</td>
<td>2,3,4'-Trichlorobiphenyl (PCB-22) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPET195</td>
<td>2,4,4'-Tetrachlorobiphenyl (PCB-28)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET195N</td>
<td>2,4,4'-Tetrachlorobiphenyl (PCB-28) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1011</td>
<td>2,4,5-Trichlorobiphenyl (PCB-29)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1011N</td>
<td>2,4,5-Trichlorobiphenyl (PCB-29) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1012</td>
<td>2,4,6-Trichlorobiphenyl (PCB-30)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1012N</td>
<td>2,4,6-Trichlorobiphenyl (PCB-30) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1013</td>
<td>2,4',5-Trichlorobiphenyl (PCB-31)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1013N</td>
<td>2,4',5-Trichlorobiphenyl (PCB-31) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1014</td>
<td>2',3,5-Trichlorobiphenyl (PCB-34)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1014N</td>
<td>2',3,5-Trichlorobiphenyl (PCB-34) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1015</td>
<td>3,3',4-Trichlorobiphenyl (PCB-35)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1015N</td>
<td>3,3',4-Trichlorobiphenyl (PCB-35) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1016</td>
<td>3,4,4'-Trichlorobiphenyl (PCB-37)</td>
<td>100µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1016N</td>
<td>3,4,4'-Trichlorobiphenyl (PCB-37) Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1017</td>
<td>3,4,5-Trichlorobiphenyl (PCB-39)</td>
<td>100µg/mL in isoctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1017N</td>
<td>3,4,5-Trichlorobiphenyl (PCB-39)  Neat</td>
<td>5mg</td>
<td></td>
</tr>
<tr>
<td>REPCB1018</td>
<td>2,2',3,4'-Tetrachlorobiphenyl (PCB-42)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration in Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>-------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPCB1018N</td>
<td>2,2',3,4'-Tetrachlorobiphenyl (PCB-42)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1019</td>
<td>2,2',3,5'-Tetrachlorobiphenyl (PCB-44)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1019N</td>
<td>2,2',3,5'-Tetrachlorobiphenyl (PCB-44)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1020</td>
<td>2,2',4,4'-Tetrachlorobiphenyl (PCB-47)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1020N</td>
<td>2,2',4,4'-Tetrachlorobiphenyl (PCB-47)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1021</td>
<td>2,2',4,5'-Tetrachlorobiphenyl (PCB-49)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1021N</td>
<td>2,2',4,5'-Tetrachlorobiphenyl (PCB-49)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPET196</td>
<td>2,2',5,5'-Tetrachlorobiphenyl (PCB-52)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET196N</td>
<td>2,2',5,5'-Tetrachlorobiphenyl (PCB-52)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1023</td>
<td>2,2',5,6'-Tetrachlorobiphenyl (PCB-53)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1023N</td>
<td>2,2',5,6'-Tetrachlorobiphenyl (PCB-53)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1024</td>
<td>2,2',6,6'-Tetrachlorobiphenyl (PCB-54)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1024N</td>
<td>2,2',6,6'-Tetrachlorobiphenyl (PCB-54)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1025</td>
<td>2,3,3',4-Tetrachlorobiphenyl (PCB-55)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1025N</td>
<td>2,3,3',4-Tetrachlorobiphenyl (PCB-55)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1026</td>
<td>2,3,5,6-Tetrachlorobiphenyl (PCB-65)</td>
<td>100µg/mL in Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1026N</td>
<td>2,3,5,6-Tetrachlorobiphenyl (PCB-65)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1027</td>
<td>2,3',4,4'-Tetrachlorobiphenyl (PCB-66)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1027N</td>
<td>2,3',4,4'-Tetrachlorobiphenyl (PCB-66)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1028</td>
<td>2,3',4,5-Tetrachlorobiphenyl (PCB-67)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1028N</td>
<td>2,3',4,5-Tetrachlorobiphenyl (PCB-67)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1029</td>
<td>2,4,4',5-Tetrachlorobiphenyl (PCB-74)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1029N</td>
<td>2,4,4',5-Tetrachlorobiphenyl (PCB-74)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1030</td>
<td>3,3',4,4'-Tetrachlorobiphenyl (PCB-77)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1030N</td>
<td>3,3',4,4'-Tetrachlorobiphenyl (PCB-77)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1031</td>
<td>3,3',4,5-Tetrachlorobiphenyl (PCB-78)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1031N</td>
<td>3,3',4,5-Tetrachlorobiphenyl (PCB-78)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1032</td>
<td>3,4,4',5-Tetrachlorobiphenyl (PCB-81)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1032N</td>
<td>3,4,4',5-Tetrachlorobiphenyl (PCB-81)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1033</td>
<td>2,2',3,5,6-Pentachlorobiphenyl (PCB-95)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1033N</td>
<td>2,2',3,5,6-Pentachlorobiphenyl (PCB-95)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1034</td>
<td>2,2',4,4',5-Pentachlorobiphenyl (PCB-99)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1034N</td>
<td>2,2',4,4',5-Pentachlorobiphenyl (PCB-99)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1035</td>
<td>2,2',4,4',6-Pentachlorobiphenyl (PCB-100)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1035N</td>
<td>2,2',4,4',6-Pentachlorobiphenyl (PCB-100)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPET197</td>
<td>2,2',4,5,5'-Pentachlorobiphenyl (PCB-101)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
</tbody>
</table>
## PCB Single Element Congeners

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration in Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPET197N</td>
<td>2,2',4,5,5'-Pentachlorobiphenyl (PCB-101)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1037</td>
<td>2,2',4,6,6'-Pentachlorobiphenyl (PCB-104)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1037N</td>
<td>2,2',4,6,6'-Pentachlorobiphenyl (PCB-104)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1038</td>
<td>2,3,3',4,4'-Pentachlorobiphenyl (PCB-105)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1038N</td>
<td>2,3,3',4,4'-Pentachlorobiphenyl (PCB-105)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1039</td>
<td>2,3,3',5,5'-Pentachlorobiphenyl (PCB-111)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1039N</td>
<td>2,3,3',5,5'-Pentachlorobiphenyl (PCB-111)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1040</td>
<td>2,3,3',5,6-Pentachlorobiphenyl (PCB-112)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1040N</td>
<td>2,3,3',5,6-Pentachlorobiphenyl (PCB-112)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1041</td>
<td>2,3,4,4',5-Pentachlorobiphenyl (PCB-114)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1041N</td>
<td>2,3,4,4',5-Pentachlorobiphenyl (PCB-114)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1042</td>
<td>2,3,4',5,6-Pentachlorobiphenyl (PCB-117)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1042N</td>
<td>2,3,4',5,6-Pentachlorobiphenyl (PCB-117)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1043</td>
<td>2,3',4,4',5-Pentachlorobiphenyl (PCB-118)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1043N</td>
<td>2,3',4,4',5-Pentachlorobiphenyl (PCB-118)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1044</td>
<td>2,3,4',5,6-Pentachlorobiphenyl (PCB-119)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1044N</td>
<td>2,3,4',5,6-Pentachlorobiphenyl (PCB-119)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1045</td>
<td>2',3,4,4',5-Pentachlorobiphenyl (PCB-123)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1045N</td>
<td>2',3,4,4',5-Pentachlorobiphenyl (PCB-123)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1046</td>
<td>2,3',4,5',6-Pentachlorobiphenyl (PCB-125)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1046N</td>
<td>2,3',4,5',6-Pentachlorobiphenyl (PCB-125)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration in Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------------</td>
<td>------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPCB1047</td>
<td>3,3',4,4',5-Pentachlorobiphenyl (PCB-126)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1047N</td>
<td>3,3',4,4',5-Pentachlorobiphenyl (PCB-126)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1048</td>
<td>2,2',3,4,4',5-Hexachlorobiphenyl (PCB-137)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1048N</td>
<td>2,2',3,4,4',5-Hexachlorobiphenyl (PCB-137)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPET198</td>
<td>2,2',3,4,4',5'-Hexachlorobiphenyl (PCB-138)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET198N</td>
<td>2,2',3,4,4',5'-Hexachlorobiphenyl (PCB-138)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1050</td>
<td>2,2',3,4,5,5'-Hexachlorobiphenyl (PCB-141)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1050N</td>
<td>2,2',3,4,5,5'-Hexachlorobiphenyl (PCB-141)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1051</td>
<td>2,2',3,4,5,6'-Hexachlorobiphenyl (PCB-143)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1051N</td>
<td>2,2',3,4,5,6'-Hexachlorobiphenyl (PCB-143)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1052</td>
<td>2,2',3,4,5,6'-Hexachlorobiphenyl (PCB-149)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1052N</td>
<td>2,2',3,4,5,6'-Hexachlorobiphenyl (PCB-149)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPET199</td>
<td>2,2',4,4',5,5'-Hexachlorobiphenyl (PCB-153)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET199N</td>
<td>2,2',4,4',5,5'-Hexachlorobiphenyl (PCB-153)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1054</td>
<td>2,2',4,4',6,6'-Hexachlorobiphenyl (PCB-155)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1054N</td>
<td>2,2',4,4',6,6'-Hexachlorobiphenyl (PCB-155)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1055</td>
<td>2,3,3',4,4',5-Hexachlorobiphenyl (PCB-156)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1055N</td>
<td>2,3,3',4,4',5-Hexachlorobiphenyl (PCB-156)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1056</td>
<td>2,3,3',4,4',5'-Hexachlorobiphenyl (PCB-157)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1056N</td>
<td>2,3,3',4,4',5'-Hexachlorobiphenyl (PCB-157)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1057</td>
<td>2,3,3',4,5,6-Hexachlorobiphenyl (PCB-160)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1057N</td>
<td>2,3,3',4,5,6-Hexachlorobiphenyl (PCB-160)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration in Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------</td>
<td>----------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPCB1058</td>
<td>2,3,3',4',5,6-Hexachlorobiphenyl (PCB-163)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1058N</td>
<td>2,3,3',4',5,6-Hexachlorobiphenyl (PCB-163)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1059</td>
<td>2,3,3',5,5',6-Hexachlorobiphenyl (PCB-165)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1059N</td>
<td>2,3,3',5,5',6-Hexachlorobiphenyl (PCB-165)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1060</td>
<td>2,3,4,4',5,6-Hexachlorobiphenyl (PCB-166)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1060N</td>
<td>2,3,4,4',5,6-Hexachlorobiphenyl (PCB-166)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1061</td>
<td>2,3',4',5,5'-Hexachlorobiphenyl (PCB-167)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1061N</td>
<td>2,3',4',5,5'-Hexachlorobiphenyl (PCB-167)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1062</td>
<td>3,3',4',5,5'-Hexachlorobiphenyl (PCB-169)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1062N</td>
<td>3,3',4',5,5'-Hexachlorobiphenyl (PCB-169)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1063</td>
<td>2,2',3,3',4,4',5,5'-Heptachlorobiphenyl (PCB-170)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1063N</td>
<td>2,2',3,3',4,4',5,5'-Heptachlorobiphenyl (PCB-170)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1064</td>
<td>2,2',3,3',4,5,6-Heptachlorobiphenyl (PCB-177)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1064N</td>
<td>2,2',3,3',4,5,6-Heptachlorobiphenyl (PCB-177)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1065</td>
<td>2,2',3,3',4,5,6-Heptachlorobiphenyl (PCB-178)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1065N</td>
<td>2,2',3,3',4,5,6-Heptachlorobiphenyl (PCB-178)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPET200</td>
<td>2,2',3,3',4,5,5'-Heptachlorobiphenyl (PCB-180)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET200N</td>
<td>2,2',3,3',4,5,5'-Heptachlorobiphenyl (PCB-180)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1067</td>
<td>2,2',3,3',4,5,5',6-Heptachlorobiphenyl (PCB-183)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1067N</td>
<td>2,2',3,3',4,5,5',6-Heptachlorobiphenyl (PCB-183)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1068</td>
<td>2,2',3,3',5,5',6-Heptachlorobiphenyl (PCB-187)</td>
<td>100µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1068N</td>
<td>2,2',3,3',5,5',6-Heptachlorobiphenyl (PCB-187)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration in Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>--------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REPCB1069</td>
<td>2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB-189)</td>
<td>100 µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1069N</td>
<td>2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB-189)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1070</td>
<td>2,3,3',4,4',5,6'-Heptachlorobiphenyl (PCB-190)</td>
<td>100 µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1070N</td>
<td>2,3,3',4,4',5,6'-Heptachlorobiphenyl (PCB-190)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1071</td>
<td>2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB-194)</td>
<td>100 µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1071N</td>
<td>2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB-194)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1072</td>
<td>2,2',3,3',4,4',5,5,6-Octachlorobiphenyl (PCB-196)</td>
<td>100 µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1072N</td>
<td>2,2',3,3',4,4',5,5,6-Octachlorobiphenyl (PCB-196)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPET201</td>
<td>2,2',3,3',4,5,5,6-Octachlorobiphenyl (PCB-198)</td>
<td>100 µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET201N</td>
<td>2,2',3,3',4,5,5,6-Octachlorobiphenyl (PCB-198)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1074</td>
<td>2,2',3,3',4,5,5,6-Octachlorobiphenyl (PCB-199)</td>
<td>100 µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1074N</td>
<td>2,2',3,3',4,5,5,6-Octachlorobiphenyl (PCB-199)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1075</td>
<td>2,2',3,3',4,5,6,6'-Octachlorobiphenyl (PCB-204)</td>
<td>100 µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1075N</td>
<td>2,2',3,3',4,5,6,6'-Octachlorobiphenyl (PCB-204)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPCB1076</td>
<td>2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (PCB-207)</td>
<td>100 µg/mL in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPCB1076N</td>
<td>2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (PCB-207)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
<tr>
<td>REPET202</td>
<td>Decachlorobiphenyl (PCB-209)</td>
<td>100 µg/mL in cyclohexane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPET202N</td>
<td>Decachlorobiphenyl (PCB-209)</td>
<td>Neat</td>
<td>5mg</td>
</tr>
</tbody>
</table>
## Aroclor Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration in Matrix</th>
<th>US EPA Methods</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REA1016-H</td>
<td>Aroclor 1016</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1016-I</td>
<td>Aroclor 1016</td>
<td>1000ug/ml in high purity Isooctane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1221</td>
<td>Aroclor 1221</td>
<td>200ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1221-H</td>
<td>Aroclor 1221</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1221-I</td>
<td>Aroclor 1221</td>
<td>1000ug/ml in high purity Isooctane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1232</td>
<td>Aroclor 1232</td>
<td>200ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1232-H</td>
<td>Aroclor 1232</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1232-I</td>
<td>Aroclor 1232</td>
<td>1000ug/ml in high purity Isooctane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1242</td>
<td>Aroclor 1242</td>
<td>200ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1242-H</td>
<td>Aroclor 1242</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1242-I</td>
<td>Aroclor 1242</td>
<td>1000ug/ml in high purity Isooctane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1248</td>
<td>Aroclor 1248</td>
<td>200ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1248-H</td>
<td>Aroclor 1248</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1248-I</td>
<td>Aroclor 1248</td>
<td>1000ug/ml in high purity Isooctane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1254</td>
<td>Aroclor 1254</td>
<td>200ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1254-H</td>
<td>Aroclor 1254</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1254-I</td>
<td>Aroclor 1254</td>
<td>1000ug/ml in high purity Isooctane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1260</td>
<td>Aroclor 1260</td>
<td>200ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1260-H</td>
<td>Aroclor 1260</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1260-I</td>
<td>Aroclor 1260</td>
<td>1000ug/ml in high purity Isooctane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1262</td>
<td>Aroclor 1262</td>
<td>200ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1262-H</td>
<td>Aroclor 1262</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1262-I</td>
<td>Aroclor 1262</td>
<td>1000ug/ml in high purity Isooctane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1268</td>
<td>Aroclor 1268</td>
<td>200ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1268-H</td>
<td>Aroclor 1268</td>
<td>1,000ug/ml in high purity Hexane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
<tr>
<td>REA1268-I</td>
<td>Aroclor 1268</td>
<td>1000ug/ml in high purity Isooctane</td>
<td>625,8270C</td>
<td>1ml</td>
</tr>
</tbody>
</table>
Phthalate Standards

Phthalates are esters produced by esterification of phthalic acid with different alcohols. They are the most commonly used plasticisers, which are added to plastics to increase their flexibility, transparency and durability. Phthalates may be classified into two groups, based on molecular weight, comprising low molecular weight phthalates (ester side-chain lengths, one to four carbons) which include dibutyl phthalate (DBP), diethyl phthalate (DEP) and dimethyl phthalate (DMP) and high-molecular-weight phthalates (ester side-chain lengths, five or more carbons), which include bis (2-ethylhexyl) phthalate (DEHP) and dinonyl phthalate (DINP). These compounds can be found in a wide range of products, including adhesives and glues, electronics, medical devices, tubing, packaging, cosmetics, children’s toys and food. Their presence in different products of everyday use means they can be found in all parts of the environment.

Since phthalates are incorporated in the polymer matrix in almost all plastic materials, these can easily migrate into foods and drinking water from the packaging or bottling material. Thus phthalates can bioaccumulate in tissues and in the food chain. Phthalates are poorly biodegradable and are potentially toxic. They have been associated with a number of health problems that include endocrine, respiratory, neurological and reproductive disorders. Several phthalates have been prioritised as significantly hazardous substances by many protection organisations. For example, certain phthalates have been identified as priority hazardous substances by the European Union (EU), the US Environmental Protection Agency (EPA) and other international organisations.

In order to protect the consumers, sensitive and reliable methods for rapid detection of phthalates present in food and food contact materials are clearly needed. Although, liquid chromatography-mass spectrometry (LC-MS) methods for phthalates have been described, gas chromatography-mass spectrometry (GC-MS) is the preferred method for phthalate measurement due to the high reproducibility and specificity obtained.

Irrespective of analytical methodology, there is a requirement for high quality, pure, well characterised phthalate standards. Such standards have recently been developed in this laboratory and we have as part of this work, participated in a significant study on the quantification of phthalates in commercially available drinking water from different producers. Furthermore, this study provides specific data about the concentration of DBP and DEHP attributable to the migration of phthalates from food contact materials.

(1) Improved method for rapid detection of phthalates in bottled water by gas chromatography–mass spectrometry
Paz Otero*, Sushanta Kumar Saha*, Siobhan Moanea, John Barronb, Gerard Clancyc, Patrick Murraya

a Shannon Applied Biotechnology Centre, Limerick Institute of Technology, Moylish Park, Limerick, Ireland
b Reagecon Diagnostics Limited Shannon Free Zone, Shannon, Co. Clare, Ireland.
## Monophthalate Esters

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Analyte</th>
<th>Concentration &amp; Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHT023</td>
<td>Monomethyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT024</td>
<td>Monoethyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT025</td>
<td>Mono-n-buty phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT026</td>
<td>Mono-iso-buty phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT027</td>
<td>Mono-n-pentyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT028</td>
<td>Mono-iso-pentyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT029</td>
<td>Monobenzyl phthalate</td>
<td>1000µg/ml in Dischloromethane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT030</td>
<td>Mono-n-hexyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT031</td>
<td>Mono(2-ethylhexyl) phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT032</td>
<td>Monobornyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT033</td>
<td>Monocholestryl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
</tbody>
</table>

## Diphthalate Esters

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Analyte</th>
<th>Concentration &amp; Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHT011</td>
<td>Bis(2-ethylhexyl) phthalate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT012</td>
<td>Bis(2-ethylhexyl) phthalate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT013</td>
<td>Butyl benzyl phthalate</td>
<td>1000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT014</td>
<td>Butyl benzyl phthalate</td>
<td>2000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT015</td>
<td>Diethyl phthalate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT016</td>
<td>Diethyl phthalate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT017</td>
<td>Dimethyl phthalate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT018</td>
<td>Dimethyl phthalate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT019</td>
<td>Di-n-buty phthalate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT020</td>
<td>Di-n-buty phthalate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT021</td>
<td>Di-n-octyl phthalate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT022</td>
<td>Di-n-octyl phthalate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT034</td>
<td>Dimethyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT035</td>
<td>Dimethyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT036</td>
<td>Diethyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT037</td>
<td>Diethyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT038</td>
<td>Di-n-propyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT039</td>
<td>Di-n-propyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT040</td>
<td>Di-iso-propyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT041</td>
<td>Bis(2-methoxyethyl) phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT042</td>
<td>Bis(2-methoxyethyl) phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT043</td>
<td>Di-iso-buty phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
</tbody>
</table>

(Di-2-methylpropyl phthalate)
## Diphthalate Esters

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Analyte</th>
<th>Concentration &amp; Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHT044</td>
<td>Di-iso-butyl phthalate (Di-2-methylpropyl phthalate)</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT045</td>
<td>n-Butyl iso-butyl phthalate (n-Butyl 2-methylpropyl phthalate)</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT046</td>
<td>n-Butyl iso-butyl phthalate (n-Butyl 2-methylpropyl phthalate)</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT047</td>
<td>n-Butyl n-pentyl phthalate</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT048</td>
<td>n-Butyl n-pentyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT049</td>
<td>n-Butyl n-pentyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT050</td>
<td>iso-Butyl n-pentyl phthalate</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT051</td>
<td>iso-Butyl n-pentyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT052</td>
<td>iso-Butyl n-pentyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT053</td>
<td>n-Butyl iso-pentyl phthalate (n-Butyl 3-methylbutyl phthalate)</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT054</td>
<td>n-Butyl iso-pentyl phthalate (n-Butyl 3-methylbutyl phthalate)</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT055</td>
<td>n-Butyl iso-pentyl phthalate (n-Butyl 3-methylbutyl phthalate)</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT056</td>
<td>Bis(2-ethoxyethyl) phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT057</td>
<td>Bis(2-ethoxyethyl) phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT058</td>
<td>Di-n-pentyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT059</td>
<td>Di-n-pentyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT060</td>
<td>Diisopentyl phthalate (diisoamyl phthalate)</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT061</td>
<td>Diisopentyl phthalate (diisoamyl phthalate)</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT062</td>
<td>n-Pentyl iso-pentyl phthalate (n-Pentyl 3-methylbutyl phthalate)</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT063</td>
<td>n-Pentyl iso-pentyl phthalate (n-Pentyl 3-methylbutyl phthalate)</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT064</td>
<td>n-Pentyl iso-pentyl phthalate (n-Pentyl 3-methylbutyl phthalate)</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT065</td>
<td>n-Pentyl benzyl phthalate</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT066</td>
<td>n-Pentyl benzyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
</tbody>
</table>
## Diphthalate Esters

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Analyte</th>
<th>Concentration &amp; Matrix</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPHT067</td>
<td>n-Pentyl benzyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT068</td>
<td>Iso-pentyl benzyl phthalate (3-Methylbutyl benzyl phthalate)</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT069</td>
<td>Iso-pentyl benzyl phthalate (3-Methylbutyl benzyl phthalate)</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT070</td>
<td>Iso-pentyl benzyl phthalate (3-Methylbutyl benzyl phthalate)</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT071</td>
<td>iso-Butyl benzyl phthalate (2-Methylpropyl benzyl phthalate)</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT072</td>
<td>iso-Butyl benzyl phthalate (2-Methylpropyl benzyl phthalate)</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT073</td>
<td>iso-Butyl benzyl phthalate (2-Methylpropyl benzyl phthalate)</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT074</td>
<td>Diphenyl phthalate</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT075</td>
<td>Dicyclohexyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT076</td>
<td>Dicyclohexyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT077</td>
<td>Bis(2-n-butoxyethyl) phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT078</td>
<td>Bis(2-n-butoxyethyl) phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT079</td>
<td>Bis(4-methyl-2-pentyl) phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT080</td>
<td>Bis(4-methyl-2-pentyl) phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT081</td>
<td>n-Butyl n-octyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT082</td>
<td>n-Butyl n-octyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT083</td>
<td>2-Ethylhexyl n-octyl phthalate</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT084</td>
<td>2-Ethylhexyl n-octyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT085</td>
<td>2-Ethylhexyl n-octyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT086</td>
<td>Di-n-hexyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT087</td>
<td>Di-n-hexyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT088</td>
<td>Dibenzyl phthalate</td>
<td>100µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT089</td>
<td>Dibenzyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT090</td>
<td>Di-n-heptyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT091</td>
<td>Di-n-heptyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
<tr>
<td>REPHT092</td>
<td>Di-n-nonyl phthalate</td>
<td>1000µg/ml in Isooctane</td>
<td>1ml</td>
</tr>
<tr>
<td>REPHT093</td>
<td>Di-n-nonyl phthalate</td>
<td>neat</td>
<td>10mg</td>
</tr>
</tbody>
</table>
Semi Volatile Organic Compound Standards (SVOCs)

These products are prepared gravimetrically on a weight/volume basis. Both solute and solvent are prepared using equipment calibrated by Reagecon engineers. Reagecon holds IEC/ISO 17025 accreditation for calibration of laboratory balances and pipettes (INAB Ref:265C). The resulting equipment Calibration Certificates are issued in accordance with the requirements of ISO/IEC 17025. The results are then reported and certified in µg/ml on the basis of weight and the density measurement of the standard. Reagecon is IEC/ISO 17025 (INAB Ref:264T) Accredited for density measurement using an Oscillating U-Tube Method in accordance with the ASTM D4052 method. The calibration of the GC-MS instrument is completed using high purity ISO Guide 34 accredited SVOC standards similar in SVOC concentration value to these products. The mass spectrum of each of the analytes is confirmed by comparison with the National Institute of Standards and Technology (NIST) mass spectral library.

Summary of Features & Benefits:

Commercial Benefits
- Ready to use (dilute for use as calibration and/or quality control standards)
- Extensive range of organic compound mixes and single compound standards available
- Can be used with a variety of instruments including GC, GC-MS, HPLC and LC-MS
- Designed specifically for use in EPA or EU analytical methods
- Presented in high quality amber ampoules
- Customised formulations available

Technical Benefits
- Produced in accordance with EPA methods
- Consistency of product - Independent, Traceable, Certified
- Certificates of Analysis and Safety Data Sheets available online

Semi Volatile Organic Compound Standards (SVOCs)

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration in Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESVOC001</td>
<td>1,2,4,5-Tetrachlorobenzene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC002</td>
<td>1,2,4,5-Tetrachlorobenzene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC003</td>
<td>1,4-Naphthoquinone</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC004</td>
<td>1,4-Naphthoquinone</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC005</td>
<td>1-Acetyl-2-thiourea</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC006</td>
<td>1-Acetyl-2-thiourea</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC007</td>
<td>1-Aminonaphthalene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC008</td>
<td>1-Aminonaphthalene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC009</td>
<td>1-Chloronaphthalene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC010</td>
<td>1-Chloronaphthalene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
</tbody>
</table>
## Semi Volatile Organic Compound Standards (SVOCs)

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration in Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESVOC011</td>
<td>2-Aminoanthraquinone</td>
<td>1000µg/ml in MeCl:Benzene:Tetrahydrofuran</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC012</td>
<td>2-Aminoanthraquinone</td>
<td>2000µg/ml in MeCl:Benzene:Tetrahydrofuran</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC013</td>
<td>2-Aminonaphthalene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC014</td>
<td>2-Aminonaphthalene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC015</td>
<td>2-Chloroaniline</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC016</td>
<td>2-Chloroaniline</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC017</td>
<td>2-Chloronaphthalene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC018</td>
<td>2-Chloronaphthalene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC019</td>
<td>2-Nitroaniline</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC020</td>
<td>2-Nitroaniline</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC021</td>
<td>3-Amino-9-ethylcarbazole</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC022</td>
<td>3-Amino-9-ethylcarbazole</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC023</td>
<td>3-Methylcholanthrene</td>
<td>1000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC024</td>
<td>3-Methylcholanthrene</td>
<td>2000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC025</td>
<td>3-Nitroaniline</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC026</td>
<td>3-Nitroaniline</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC027</td>
<td>4-Chloro-1,2-phenylenediamine</td>
<td>1000µg/ml in Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC028</td>
<td>4-Chloro-1,2-phenylenediamine</td>
<td>2000µg/ml in Acetonitrile</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC029</td>
<td>4-Chloro-1,3-phenylenediamine</td>
<td>1000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC030</td>
<td>4-Chloro-1,3-phenylenediamine</td>
<td>2000µg/ml in Acetone</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC031</td>
<td>4-Nitroaniline</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC032</td>
<td>4-Nitroaniline</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC033</td>
<td>4-Nitrophenyl</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC034</td>
<td>4-Nitrophenyl</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC035</td>
<td>5-Chloro-2-methylaniline</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC036</td>
<td>5-Chloro-2-methylaniline</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC037</td>
<td>5-Nitrocenapthene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC038</td>
<td>5-Nitrocenapthene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC039</td>
<td>Aniline</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC040</td>
<td>Aniline</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC041</td>
<td>Benzoic acid</td>
<td>1000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC042</td>
<td>Benzoic acid</td>
<td>2000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC043</td>
<td>Benzyl alcohol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC044</td>
<td>Benzyl alcohol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC045</td>
<td>Dibenzo-furan</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration in Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------</td>
<td>-------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>RESVOC046</td>
<td>Dibenzofuran</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC047</td>
<td>Diethyl sulfate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC048</td>
<td>Diethyl sulfate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC049</td>
<td>Diethylstilbestrol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC050</td>
<td>Diethylstilbestrol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC051</td>
<td>Hexachlorophene</td>
<td>1000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC052</td>
<td>Hexachlorophene</td>
<td>2000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC053</td>
<td>Hexachloropropene</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC054</td>
<td>Hexachloropropene</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC055</td>
<td>Hexamethylphosphoramide</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC056</td>
<td>Hexamethylphosphoramide</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC057</td>
<td>Hydroquinone</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC058</td>
<td>Hydroquinone</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC059</td>
<td>Maleic anhydride</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC060</td>
<td>Maleic anhydride</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC061</td>
<td>Nicotine</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC062</td>
<td>Nicotine</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC063</td>
<td>Nitroquinoline-1-oxide</td>
<td>1000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC064</td>
<td>Nitroquinoline-1-oxide</td>
<td>2000µg/ml in Methylene Chloride</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC065</td>
<td>p-Benzquinone</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC066</td>
<td>p-Benzquinone</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC067</td>
<td>Resorcinol</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC068</td>
<td>Resorcinol</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC069</td>
<td>Safrole</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC070</td>
<td>Safrole</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC071</td>
<td>Tetraethyl dithiopyrophosphate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC072</td>
<td>Tetraethyl dithiopyrophosphate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC073</td>
<td>Thiophenol (Benzenethiol)</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC074</td>
<td>Thiophenol (Benzenethiol)</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC075</td>
<td>Toluene diisocyanate</td>
<td>1000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
<tr>
<td>RESVOC076</td>
<td>Toluene diisocyanate</td>
<td>2000µg/ml in Purge &amp; Trap Methanol</td>
<td>1ml</td>
</tr>
</tbody>
</table>
These complex mixes are prepared from materials of the highest available purity, accurate to four decimal places, and include a detailed data sheet on the formulation composition. The exact composition on a weight % basis for each analyte is provided on the certificate of analysis that is provided with every bottle.

**PIANO, PONA & PNA Standards**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Mix Name</th>
<th>Constituents</th>
<th>Concentration</th>
<th>Matrix</th>
<th>Pack Size</th>
<th>ASTM</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPIANO-P</td>
<td>Piano Paraffins</td>
<td>N-Pentane</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Hexane</td>
<td></td>
<td></td>
<td></td>
<td>D6733</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Heptane</td>
<td></td>
<td></td>
<td></td>
<td>D5134</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Octane</td>
<td></td>
<td></td>
<td></td>
<td>D3710</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Nonane</td>
<td></td>
<td></td>
<td></td>
<td>D2789</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Decane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Undecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Dodecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Tridecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Tetradecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Pentadecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product Number</td>
<td>Reagecon Mix Name</td>
<td>Constituents</td>
<td>Concentration</td>
<td>Matrix</td>
<td>Pack Size</td>
<td>ASTM</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------</td>
<td>--------------</td>
<td>---------------</td>
<td>--------</td>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>REPIANO-I Piano Isoparaffins</td>
<td>Isopentane</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,3-Dimethylbutane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D6733</td>
</tr>
<tr>
<td></td>
<td>2-Methylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D5134</td>
</tr>
<tr>
<td></td>
<td>3-Methylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D3710</td>
</tr>
<tr>
<td></td>
<td>2,2-Dimethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D2789</td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,2,3-Trimethylbutane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,3-Dimethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methylhexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,3-Dimethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Methylhexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Ethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,2-Dimethylhexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,5-Dimethylhexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,2,3-Trimethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,4-Dimethylhexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,3-Dimethylhexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methylheptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-Methylheptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Methylheptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Ethylhexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,3-Dimethylheptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,5-Dimethylheptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,5-Dimethylheptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,3-Dimethylheptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,4-Dimethylheptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methyloctane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Methyloctane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,3-Diethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,2-Dimethyloctane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,3-Dimethyloctane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,3-Dimethyloctane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Ethylheptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-Methylnonane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Methylnonane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product Number</td>
<td>Mix Name</td>
<td>Constituents</td>
<td>Concentration</td>
<td>Matrix</td>
<td>Pack Size</td>
<td>ASTM</td>
</tr>
<tr>
<td>----------------</td>
<td>----------</td>
<td>--------------</td>
<td>---------------</td>
<td>--------</td>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>REPIANO-A</td>
<td>PIANO Aromatics</td>
<td>Benzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toluene</td>
<td></td>
<td></td>
<td></td>
<td>D6733</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td>D5134</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M-Xylene</td>
<td></td>
<td></td>
<td></td>
<td>D3710</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P-Xylene</td>
<td></td>
<td></td>
<td></td>
<td>D2789</td>
</tr>
<tr>
<td></td>
<td></td>
<td>O-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Isopropylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Propylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Methyl-3-ethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Methyl-4-ethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,3,5-Trimethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Methyl-2-ethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,4-Trimethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>tert-Butylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Isobutylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>sec-Butylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Methyl-3-isopropylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Methyl-4-isopropylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Methyl-2-isopropylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Methyl-3-n-propylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Methyl-4-n-propylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Butylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2-Diethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Methyl-2-n-propylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,4-Dimethyl-2-ethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,3-Dimethyl-5-ethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2-Dimethyl-4-ethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,3-Dimethyl-2-ethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2-Dimethyl-3-ethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,4,5-Tetramethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2-Methylbutylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>trans-1-Butyl-1,2-dimethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Pentybenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>t-1-Butyl-1,3,5-trimethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>t-1-butyl-ethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,3,5-Triethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,4-Triethylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Hexylbenzene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td>Product Number</td>
<td>Mix Name</td>
<td>Constituents</td>
<td>Concentration</td>
<td>Matrix</td>
<td>Pack Size</td>
<td>ASTM</td>
</tr>
<tr>
<td>----------------</td>
<td>------------------</td>
<td>-------------------------------------------</td>
<td>---------------</td>
<td>--------</td>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>REPIANO-N</td>
<td>PIANO</td>
<td>Cyclopentane</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td>Naphthalenes</td>
<td>Methylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td>D6733</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cyclohexane</td>
<td></td>
<td></td>
<td></td>
<td>D5134</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1-Dimethylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td>D3710</td>
</tr>
<tr>
<td></td>
<td></td>
<td>cis-1,3-Dimethylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td>D2789</td>
</tr>
<tr>
<td></td>
<td></td>
<td>trans-1,2-Dimethylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>trans-1,3-Dimethylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Methylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ctc-1,2,3-Trimethylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>cct-1,2,4-Trimethylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ctc-1,2,4-Trimethylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>trans-1,4-Dimethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Ethyl-1-methylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>trans-1,2-Dimethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ccc-1,2,3-Trimethylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Isopropylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>cis-1,2-Dimethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Propylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ccc-1,3,5-Trimethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1,4-Trimethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ctt-1,2,4-Trimethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ctc-1,2,4-Trimethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1,2-Trimethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Isobutylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Isopropylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Butylcyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Isobutylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>t-1-Methyl-2-propylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>t-1-Methyl-2-(4MP)cyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product Number</td>
<td>Reagecon Mix Name</td>
<td>Constituents</td>
<td>Concentration</td>
<td>Matrix</td>
<td>Pack Size</td>
<td>ASTM</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------</td>
<td>--------------</td>
<td>---------------</td>
<td>--------</td>
<td>-----------</td>
<td>------</td>
</tr>
<tr>
<td>PIANO Olefins</td>
<td>3-Methyl-1-butene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
<td></td>
</tr>
<tr>
<td>1-Pentene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D6733</td>
</tr>
<tr>
<td>2-Methyl-1-butene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D5134</td>
</tr>
<tr>
<td>2-Methyl-1, 3-butadiene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D3710</td>
</tr>
<tr>
<td>trans-2-Pentene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D2789</td>
</tr>
<tr>
<td>cis-2-Pentene</td>
<td>4-Methylpentene-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-Hexene</td>
<td>trans-2-Hexene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Methylpentene-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-2-Hexene</td>
<td>1-Heptene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>trans-3-Heptene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-3-Heptene</td>
<td>trans-2-Heptene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-2-Heptene</td>
<td>1-Octene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>trans-2-Octene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-2-Octene</td>
<td>1-Nonene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>trans-3-Nonene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-3-Nonene</td>
<td>trans-2-Nonene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cis-2-Nonene</td>
<td>1-Decene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product Number</td>
<td>Mix Name</td>
<td>Constituents</td>
<td>Concentration</td>
<td>Matrix</td>
<td>Pack Size</td>
<td>ASTM</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
<td>-------------</td>
<td>---------------</td>
<td>--------</td>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>REPIANO1</td>
<td>PIANO 1 Standard</td>
<td>n-Pentane</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Hexane</td>
<td></td>
<td></td>
<td></td>
<td>D6733</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Heptane</td>
<td></td>
<td></td>
<td></td>
<td>D5134</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Octane</td>
<td></td>
<td></td>
<td></td>
<td>D3710</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Nonane</td>
<td></td>
<td></td>
<td></td>
<td>D2789</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Decane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Undecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Dodecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Isopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2-Methyl Pentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3-Methyl Pentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,2 Dimethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,3 Dimethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,4 Dimethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,2,4 Trimethylpentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Methylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Propylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Butylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Pentylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decalin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Benzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Propylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EthylBenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>p-Xylene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cumene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,3,5-Trimethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3-Ethyltoluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,4-Trimethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,2,4,5 Tetramethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Butylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Iso-Butylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Pentelbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Pentene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,3,3 Trimethyl-1-Butene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2-Methyl-1-Heptene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Hexene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,3-Dimethyl-2-Butene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Heptene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Nonene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Decene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Undecene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Dodecene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product Number</td>
<td>Mix Name</td>
<td>Constituents</td>
<td>Concentration</td>
<td>Matrix</td>
<td>Pack Size</td>
<td>ASTM</td>
</tr>
<tr>
<td>----------------</td>
<td>---------</td>
<td>--------------</td>
<td>---------------</td>
<td>--------</td>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>REPONA</td>
<td>PONA Standard</td>
<td>1-Butene</td>
<td>Varies per Batch</td>
<td>None</td>
<td>1ml</td>
<td>D6279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Pentene</td>
<td></td>
<td></td>
<td></td>
<td>D6733</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Hexene</td>
<td></td>
<td></td>
<td></td>
<td>D5134</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Heptene</td>
<td></td>
<td></td>
<td></td>
<td>D3710</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Octene</td>
<td></td>
<td></td>
<td></td>
<td>D2789</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Nonene</td>
<td></td>
<td></td>
<td></td>
<td>D6298</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Decene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Undecene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-Dodecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Propane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Butane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Pentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Hexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Heptane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Octane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Nonane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Decane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Undecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Dodecane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Methanol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethanol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>tert-Butyl methyl ether</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>tert- Amyl methyl ether</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>tert-Butanol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>tert- Butyl ethyl ether</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cyclopentane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Methylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Propylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>n-Butylcyclohexane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Benzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toluene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Propylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Butylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N-Pentylbenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Petrochemical Standards

Gas calibration Standards for use in the Petrochemical Industry

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>% Concentration</th>
<th>Solvent</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGASCAL-1-250</td>
<td>Naphthalin</td>
<td>3</td>
<td>Petrolether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>o-xylene</td>
<td>6.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>p-xylene</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MTBE</td>
<td>10.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REGASCAL-2-250</td>
<td>Ethanol</td>
<td>12</td>
<td>Petrolether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>2-ET-Toluene</td>
<td>7.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mesitylen</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pseudocumen</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REGASCAL-3-250</td>
<td>TAME</td>
<td>14.6</td>
<td>Petrolether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>ET-Benzene</td>
<td>6.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-ET-Toluene</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REGASCAL-4-250</td>
<td>Pr-Benzene</td>
<td>9.8</td>
<td>Petrolether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>M-xylene</td>
<td>5.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>5.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REGASCAL-5-250</td>
<td>Methanol</td>
<td>6</td>
<td>Petrolether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>3-ET-Toluene</td>
<td>5.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Benzene Calibration Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>% Concentration</th>
<th>Solvent</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REBENCAL-B05-250</td>
<td>Benzene</td>
<td>0.5</td>
<td>Petroether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REBENCAL-B10-250</td>
<td>Benzene</td>
<td>1</td>
<td>Petroether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Mesitylen</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pr-Benzene</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REBENCAL-B25-250</td>
<td>Benzene</td>
<td>2.5</td>
<td>Petroether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>5.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mesitylen</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pr-Benzene</td>
<td>4.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REBENCAL-B35-250</td>
<td>Benzene</td>
<td>3.5</td>
<td>Petroether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Mesitylen</td>
<td>11.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REBENCAL-B50-250</td>
<td>Benzene</td>
<td>5</td>
<td>Petroether</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Pr-Benzene</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Cetane Improver Calibration Sets

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>% Concentration</th>
<th>Solvent</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECETIMP-CAL1-250</td>
<td>2-Ethylhexyl Nitrate</td>
<td>0.03</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>RECETIMP-CAL2-250</td>
<td>2-Ethylhexyl Nitrate</td>
<td>0.1</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>RECETIMP-CAL3-250</td>
<td>2-Ethylhexyl Nitrate</td>
<td>0.2</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
<tr>
<td>RECETIMP-CAL4-250</td>
<td>2-Ethylhexyl Nitrate</td>
<td>0.5</td>
<td>Chevron Phillips High Cetone</td>
<td>250ml</td>
</tr>
</tbody>
</table>
Reagecon manufactures a range of Total Organic Carbon (TOC) and Total Inorganic Carbon (TIC) Standards for ease of use when calibrating all types of TOC analysers, irrespective of brand. All of our TOC standards are manufactured using high purity raw materials in accordance with USP <643> and <1051> guidelines. These products are prepared gravimetrically on a weight/weight basis. Both solute (salts) and solvent (water) are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO/IEC 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025. The TOC / TIC of the standard is verified using a high performance calibrated TOC analyser. The calibration of this instrument involves the use of high purity ISO Guide 34 accredited TOC standards similar in TOC value to the products listed in the following tables.

### Summary of Features & Benefits:

<table>
<thead>
<tr>
<th>Commercial Benefits</th>
<th>Technical Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Extensive range (500ppb to 20,000ppm /0.5mg/l to 20,000mg/l)</td>
<td>• In accordance with USP &lt;643&gt; and &lt;1051&gt; guidelines</td>
</tr>
<tr>
<td>• Presented in single - use glass vials</td>
<td>• Consistency of product - Independent, Traceable, Certified</td>
</tr>
<tr>
<td>• Extended shelf life</td>
<td>• Certificates of Analysis and Safety Data Sheets available online</td>
</tr>
<tr>
<td>• Ready to Use</td>
<td>• Extremely high specification and purity</td>
</tr>
<tr>
<td>• Offered as single vials or convenient kit format</td>
<td>• Manufactured in a cleanroom environment</td>
</tr>
<tr>
<td></td>
<td>• Vials are manufactured, cleaned and leached specifically for low level TOC standards</td>
</tr>
<tr>
<td></td>
<td>• Products manufactured from Ultra-Pure Water, produced by a special proprietary process</td>
</tr>
<tr>
<td></td>
<td>• ISO/IEC 17025 Accreditation 500µg/L to 50mg/l (INAB Ref:264T)</td>
</tr>
</tbody>
</table>
## TOC/TIC Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTOCW</td>
<td>USP Reagent Water Rw</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCRs</td>
<td>USP Standard Sucrose Solution Rs (0.5mg/L C)</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCRsS</td>
<td>USP System Suitability Solution 1, 4-Benzquinone (0.5mg/L C)</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK08</td>
<td>TOC Standard 0.5mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK09</td>
<td>TOC Standard 1.0mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK10</td>
<td>TOC Standard 1.5mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK10a</td>
<td>TOC Standard 1.5mg/L C as Potassium Hydrogen Phthalate acidified with Hydrochloric Acid</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK11</td>
<td>TOC Standard 10mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK12</td>
<td>TOC Standard 25mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK30</td>
<td>TOC Standard 30mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK13</td>
<td>TOC Standard 50mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK14</td>
<td>TOC Standard 5mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK15</td>
<td>TOC Standard 2.5mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK16</td>
<td>TOC Standard 4mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK17</td>
<td>TOC Standard 100mg/L C as Potassium Hydrogen Phthalate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK18</td>
<td>TOC Standard 125ppm C as 1,4-Benzquinone</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK19</td>
<td>TOC Standard 125ppm C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK20</td>
<td>TOC Standard 250ppm C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCK21</td>
<td>TOC Standard 1,000ppm C as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTICN01</td>
<td>TIC Standard 0.5mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTICN02</td>
<td>TIC Standard 1.0mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTICN03</td>
<td>TIC Standard 1.5mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTICN04</td>
<td>TIC Standard 2mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTICN05</td>
<td>TIC Standard 4mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTICN06</td>
<td>TIC Standard 5mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTICN07</td>
<td>TIC Standard 10mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTICN08</td>
<td>TIC Standard 25mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTICN09</td>
<td>TIC Standard 50mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTIC1000</td>
<td>TIC Standard 1000mg/L as Sodium Carbonate</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS01</td>
<td>TOC Standard 0.5mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS02</td>
<td>TOC Standard 1.0mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS03</td>
<td>TOC Standard 2mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS04</td>
<td>TOC Standard 5mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS05</td>
<td>TOC Standard 10mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS06</td>
<td>TOC Standard 25mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS07</td>
<td>TOC Standard 50mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS08</td>
<td>TOC Standard 0.25mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS09</td>
<td>TOC Standard 0.75mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS10</td>
<td>TOC Standard 4mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCS11</td>
<td>TOC Standard 500mg/L C as Sucrose</td>
<td>35ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>RTOCN01</td>
<td>TOC Standard 50mg/L C as Nicotinamide</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCN02</td>
<td>TOC Standard 0.5mg/L C as Nicotinamide</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCM01</td>
<td>TOC Standard 0.5mg/L C as Methanol</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCWa</td>
<td>USP Reagent Water Rw acidified with HCl</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCRsa</td>
<td>USP Standard Sucrose Solution Rs (0.5mg/L C) acidified with HCl</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCRssa</td>
<td>USP System Suitability Solution 1,4-Benzoquinone (0.5mg/L C) acidified with HCl</td>
<td>35ml</td>
</tr>
<tr>
<td>RTOCUSP1</td>
<td>USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water (RTOCW), Standard Solution (RTOCRs) and Suitability Solution (RTOCRss)</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RTOCUSP2</td>
<td>2 x USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water (RTOCW), Standard Solution (RTOCRs) and Suitability Solution (RTOCRss). Delivered at six month intervals</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RTOCUSP4</td>
<td>4 x USP System Suitability Sets, consisting of: 1 x 40ml vial of Reagent Water (RTOCW), Standard Solution (RTOCRs) and Suitability Solution (RTOCRss). Delivered at three month intervals</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RTOCUSP12</td>
<td>12 x (USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water (RTOCW), Standard Solution (RTOCRs) and Suitability Solution (RTOCRss). Delivered at monthly intervals</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RTOCUSP52</td>
<td>52 x (USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water (RTOCW), Standard Solution (RTOCRs) and Suitability Solution (RTOCRss). Delivered at 2 weekly intervals</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RTOCUSP260</td>
<td>260 x USP System Suitability Set consisting of 1 x 40ml vial of Reagent Water (RTOCW), Standard Solution (RTOCRs) and Suitability Solution (RTOCRss). Delivered at 2 weekly intervals</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120001</td>
<td>Carbon Calibration Set 1-50mg/L C consisting of 1 x 40ml vial each of calibration blank (RTOCW), TOC Standards 1(RTOCK09), 5 (RTOCK14), 10 (RTOCK11), 25 (RTOCK12), 50 (RTOCK13) mg/L C as Potassium Hydrogen Phthalate, TIC Standards 1mg/L (RTICN02), 5mg/L (RTICN05), 10mg/L (RTICN06), 25mg/L (RTICN07), 50mg/L (RTICN08) C as Sodium Carbonate</td>
<td>11 x 35ml</td>
</tr>
<tr>
<td>RC120002</td>
<td>1mg C/L Carbon Standard Set consisting of 1 x 40ml vial each of calibration blank (ROTCW), 1mg/L (RTOCK09) C TOC as Potassium Hydrogen Phthalate and 1 mg/L (RTICN02) C TIC as Sodium Carbonate</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120003</td>
<td>1mg C/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank (ROTCW), 1mg/L (RTOCS02) C TOC as Sucrose and 1 mg/L (RTICN02) C TIC as Sodium Carbonate</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120004</td>
<td>1mg C/L Carbon Standard Set and Verification Set consisting of 1 x RC120002 and 1 x RC120003</td>
<td>6 x 35ml</td>
</tr>
<tr>
<td>RC120005</td>
<td>5mg C/L Carbon Standard Set consisting of 1 x 40ml vial each of calibration blank (RTOCW), 5mg/L (RTOCK14) C TOC as Potassium Hydrogen Phthalate and 5 mg/L (RTICN05) C TIC as Sodium Carbonate</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120006</td>
<td>5mg C/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank (RTOCW), 5mg/L (RTOCS04) TOC C as Sucrose and 5 mg/L (RTICN05) TIC C as Sodium Carbonate</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120007</td>
<td>5mg C/L Carbon Standard and Verification Set consisting of 1 x RC120005 and 1 x RC120006</td>
<td>6 x 35ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>RC120008</td>
<td>0.5mg/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank (RTOCW), 0.5mg/L (RTOCS01) TOC C as Sucrose and 0.5mg/L (RTICN01) TIC C as Sodium Carbonate</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120009</td>
<td>1mg/L Carbon Standard and 0.5mg/L Carbon Verification Set Consisting of 1 x RC120002 and 1 x RC120008</td>
<td>6 x 35ml</td>
</tr>
<tr>
<td>RC120010</td>
<td>Validation Set -- Accuracy Precision (0.5mg), consisting of 1 x Reagent water (RTOCW) and 1 x 0.5mg/L C as sucrose (RTOCS01) in 40ml Vials</td>
<td>2 x 35ml</td>
</tr>
<tr>
<td>RC120011</td>
<td>Validation Set -- Linearity, consisting of 1x Reagent water blank (RTOCW) and 1 each of 0.25mg/L (RTOCS08), 0.5mg/L (RTOCS01), 0.75mg/L (RTOCS09), C as Sucrose in 40ml vials</td>
<td>4 x 35ml</td>
</tr>
<tr>
<td>RC120012</td>
<td>Validation Set -- Specificity, consisting of 1 x Reagent water (RTOCW), 1 x 0.5mg/L (RTOCM01) C as Methanol, 1 x 0.5mg/L (RTOCN02) C as Nicotinamide and 1 x 0.5mg/L (RTOCK08) C as Potassium Hydrogen Phthalate in 40ml vials</td>
<td>4 x 35ml</td>
</tr>
<tr>
<td>RC120013</td>
<td>Validation Set -- Robustness Standards, consisting of 1 x Reagent water (RTOCWa), 1 x Standard Solution (RTOCRsa), 1 x System suitability solution (RTOCRssa) in 40ml vials. All standards in the set acidified</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120014</td>
<td>Validation Set -- Complete , consisting of 1xRC120010, 1xRC120011, RC120012 and RC120013</td>
<td>13 x 35ml</td>
</tr>
<tr>
<td>RC120015</td>
<td>10mg C/L Carbon Standard Set consisting of 1 x 40ml vial each of calibration blank (RTOCW), 10mg/L (RTOCK11) TOC C as Potassium Hydrogen Phthalate and 10mg/L (RTICN06) TIC C as Sodium Carbonate</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120016</td>
<td>Multipoint calibration set for Sievers 5310C, consisting of 1 x calibration blank (RTOCW), 1 each of 0.25mg/L (RTOCK15), 1mg/L (RTOCK09), 5mg/L (RTOCK14), 25mg/L (RTOCK12), 50mg/L (RTOCK13) C as Potassium Hydrogen Phthalate TOC standards and 1 each of 1mg/L (RTICN02), 5mg/L (RTICN05), 10mg/L (RTICN06), 25mg/L (RTICN07), 50mg/L (RTICN08) C as Sodium Carbonate TIC standards</td>
<td>11 x 35ml</td>
</tr>
<tr>
<td>RC120017</td>
<td>2mg C/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank (RTOCW), 2mg/L (RTOCS03) TOC C as Sucrose and 2mg/L (RTICN04) TIC C as Sodium Carbonate</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120018</td>
<td>10mg C/L Carbon Verification Set consisting of 1 x 40ml vial each of calibration blank (RTOCW), 10mg/L (RTOCS05) TOC C as Sucrose and 10mg/L (RTICN06) TIC C as Sodium Carbonate</td>
<td>3 x 35ml</td>
</tr>
<tr>
<td>RC120019</td>
<td>3 point Carbon Verification Set consisting of 1 x 40ml Vial each of 1mg/L (RTOCK09), 5mg/L (RTOCK14), 10mg/L (RTOCK11) C as Potassium Hydrogen Phthalate</td>
<td>3 x 35ml</td>
</tr>
</tbody>
</table>
TOC/TIC Standards
- Quality Range

Summary of Features & Benefits:

**Commercial Benefits**
- Can be used with any brand of TOC analyser
- Extensive range (5ppm-5000ppm)
- Extended shelf life
- Ready to Use
- The Quality Range represents excellent value for money
- Other TOC/TIC values can be quoted for upon request
- Mixed TOC and TIC standards available as a normal part of the range

**Technical Benefits**
- Consistency of product - Independent, Traceable, Certified
- Certificates of Analysis and Safety Data Sheets available online
- Presented in special 500ml twin neck bottles (all values above 50ppm) - prevents product contamination, evaporation or interference
- Twin neck bottles come with a special dosing device
- All values below 50ppm are packed in specially cleaned and leached 500ml amber glass bottles

TOC Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOC5</td>
<td>Total Organic Carbon Standard 5ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC5W</td>
<td>Total Organic Carbon Standard 5pm</td>
<td>2.5L</td>
</tr>
<tr>
<td>TOC75</td>
<td>Total Organic Carbon Standard 7.5ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC10</td>
<td>Total Organic Carbon Standard 10ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC15</td>
<td>Total Organic Carbon Standard 15ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC20</td>
<td>Total Organic Carbon Standard 20ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC25</td>
<td>Total Organic Carbon Standard 25ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC30</td>
<td>Total Organic Carbon Standard 30ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC50</td>
<td>Total Organic Carbon Standard 50ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC50W</td>
<td>Total Organic Carbon Standard 50ppm</td>
<td>2.5L</td>
</tr>
<tr>
<td>TOC60</td>
<td>Total Organic Carbon Standard 60ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC100</td>
<td>Total Organic Carbon Standard 100ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC160</td>
<td>Total Organic Carbon Standard 160ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC200</td>
<td>Total Organic Carbon Standard 200ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC250</td>
<td>Total Organic Carbon Standard 250ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC500</td>
<td>Total Organic Carbon Standard 500ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC750</td>
<td>Total Organic Carbon Standard 750ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC1M</td>
<td>Total Organic Carbon Standard 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC15M</td>
<td>Total Organic Carbon Standard 1500ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC2M</td>
<td>Total Organic Carbon Standard 2000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOC5M</td>
<td>Total Organic Carbon Standard 5000ppm</td>
<td>500ml</td>
</tr>
</tbody>
</table>
# TIC Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIC5</td>
<td>Total Inorganic Carbon Standard 5ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TIC50</td>
<td>Total Inorganic Carbon Standard 50ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TIC100</td>
<td>Total Inorganic Carbon Standard 100ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TIC200</td>
<td>Total Inorganic Carbon Standard 200ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TIC500</td>
<td>Total Inorganic Carbon Standard 500ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TIC1M</td>
<td>Total Inorganic Carbon Standard 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TIC2M</td>
<td>Total Inorganic Carbon Standard 2000ppm</td>
<td>500ml</td>
</tr>
</tbody>
</table>

# Mixed TOC/TIC Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOIC10</td>
<td>Mixed Standard (equal conc of organic &amp; inorganic carbon) 10ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOIC100</td>
<td>Mixed Standard (equal conc of organic &amp; inorganic carbon) 100ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOIC1M</td>
<td>Mixed Standard (equal conc of organic &amp; inorganic carbon) 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOIC2M</td>
<td>Mixed Standard (equal conc of organic &amp; inorganic carbon) 2000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>TOIC308</td>
<td>Mixed Standard 30ppm Organic Carbon, 8ppm Inorganic Carbon</td>
<td>500ml</td>
</tr>
<tr>
<td>TOIC4M</td>
<td>Mixed Standard (equal conc of organic &amp; inorganic carbon) 4000ppm</td>
<td>500ml</td>
</tr>
</tbody>
</table>

---

**Certificate of Analysis**

**Carbon Standards**

**Total Organic Carbon 5ppm**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Lot No</th>
<th>Expiry date</th>
<th>Mean Assay</th>
<th>Date of measurement</th>
<th>Specification</th>
<th>Method</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOS5</td>
<td>TOC5</td>
<td>TOC516C1</td>
<td>28/03/2017</td>
<td>5.00 ppm as TOC</td>
<td>15/03/2016</td>
<td>4.95 - 5.05ppm as TOC</td>
<td>Standardised in accordance with in-house method acidimetric.</td>
<td>Vogels Textbook of Quantitative Inorganic Analysis. Fifth Edition.</td>
</tr>
</tbody>
</table>

**Products are manufactured under an NSAI registered I.S EN ISO9001:2008 Quality System, registration no: 19.2769**

**Date of issue of the certificate:** 15/03/2016

**QC Technician:**

**Complementary information relative to this product is available at www.reagecon.com**

---

**Reagecon Diagnostics Ltd.**

**Shannon Free Zone, Shannon, Co. Clare, Ireland.**

**Tel +353 61 472622, Fax: +353 61 472642**

**Email: sales@reagecon.ie, www.reagecon.com**
TOC/TIC Standards
- Instrument Specific

Reagecon’s Premium Range of TOC/TIC Standards as detailed in the second last chapter are an independent range of standards suitable for use on the Sievers® Range of Laboratory TOC/TIC analysers (35ml vials). The Quality Range as detailed in the previous chapter is suitable for other TOC/TIC analysers available in the market place.

Reagecon offer an extensive range of new independent standards, suitable for use on other leading brands of TOC/TIC analysers for laboratory and online applications.

Although the range is not totally exhaustive it does include independent standards for Brands listed alphabetically below such as:

- Analytik Jena®
- Anatel®
- OI Analytical®
- Shimadzu®
- Sievers®
- Teledyne Tekmar®
- Thornton®

These standards are developed, validated, manufactured and tested to an extremely high specification. We believe that they offer real choice in the market place and represent exceptionally good value.

In addition to the products listed bulk sizes may be available upon request, please contact us with your request by emailing sales@reagecon.ie

### Instrument Specific TOC/TIC Standards

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Product</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytik Jena</td>
<td>ISTOC1103</td>
<td>System Suitability Set to USP; Reagent Water, 0.5mg/L C Sucrose and 0.5mg/L C 1,4- Benzoquinone</td>
<td>Kit (3x40ml)</td>
</tr>
<tr>
<td>Analytik Jena</td>
<td>ISTOC1104</td>
<td>System Suitability Set to JP; Reagent Water, 0.5mg/L C Sodium Dodecylbenzene Sulfonate</td>
<td>Kit (2x40ml)</td>
</tr>
<tr>
<td>Analytik Jena</td>
<td>ISTOC1105</td>
<td>USP Reagent Water</td>
<td>40ml</td>
</tr>
<tr>
<td>Analytik Jena</td>
<td>ISTOC1106</td>
<td>JP Reagent Water</td>
<td>40ml</td>
</tr>
<tr>
<td>Analytik Jena</td>
<td>ISTOC1107</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>40ml</td>
</tr>
<tr>
<td>Analytik Jena</td>
<td>ISTOC1108</td>
<td>0.5mg/L C from USP 1,4 - Benzoquinone</td>
<td>40ml</td>
</tr>
<tr>
<td>Analytik Jena</td>
<td>ISTOC1124</td>
<td>0.5mg/L C from Sodium Dodecylbenzene Sulfonate</td>
<td>40ml</td>
</tr>
<tr>
<td>Anatel A1000</td>
<td>ISTOC1030</td>
<td>Calibration Blank</td>
<td>1L</td>
</tr>
<tr>
<td>Anatel A1000</td>
<td>ISTOC1034</td>
<td>Calibration Standard 0.25 mg/L C NIST Sucrose</td>
<td>1L</td>
</tr>
<tr>
<td>Anatel A1000</td>
<td>ISTOC1038</td>
<td>Calibration Standard 0.5 mg/L C NIST Sucrose</td>
<td>1L</td>
</tr>
<tr>
<td>Anatel A1000</td>
<td>ISTOC1046</td>
<td>Calibration Standard 0.75 mg/L C NIST Sucrose</td>
<td>1L</td>
</tr>
<tr>
<td>Instrument</td>
<td>Product</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>------------------------------------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Anatel A1000</td>
<td>ISTOC1165</td>
<td>System Suitability Set to USP; Reagent Water, 0.5mg/L C Sucrose and 0.5mg/L C 1,4- Benzoquinone</td>
<td>Kit (3x1L)</td>
</tr>
<tr>
<td>Anatel A643</td>
<td>ISTOC1016</td>
<td>100uS/cm Conductivity Standard for Calibration</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel A643</td>
<td>ISTOC1079</td>
<td>Calibration Blank</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel A643</td>
<td>ISTOC1080</td>
<td>System Suitability Set; 2 x Reagent Water, 0.5mg/L C USP Sucrose, 0.5mg/L C 1,4- Benzoquinone and 0.25mg/L C NIST Sucrose as Check</td>
<td>Kit (5x60ml)</td>
</tr>
<tr>
<td>Anatel A643</td>
<td>ISTOC1081</td>
<td>Calibration Standard 0.25 mg/L C NIST Sucrose</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel A643</td>
<td>ISTOC1082</td>
<td>Calibration Standard 0.5 mg/L C NIST Sucrose</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel A643</td>
<td>ISTOC1083</td>
<td>Calibration Standard 0.75 mg/L C NIST Sucrose</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel A643</td>
<td>ISTOC1166</td>
<td>Validation Set; 2 x Blanks, 0.25 mg/L C NIST Sucrose, 0.5 mg/L C NIST Sucrose and 0.75 mg/L C NIST Sucrose</td>
<td>Kit (5x60ml)</td>
</tr>
<tr>
<td>Anatel A643</td>
<td>ISTOC1169</td>
<td>Validation Kit; 2 x Blanks and 0.5 mg/L C NIST Sucrose</td>
<td>Kit (3x60ml)</td>
</tr>
<tr>
<td>Anatel PAT700</td>
<td>ISTOC1001</td>
<td>Calibration Blank</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel PAT700</td>
<td>ISTOC1002</td>
<td>Calibration Standard 0.25 mg/L C NIST Sucrose</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel PAT700</td>
<td>ISTOC1003</td>
<td>Calibration Standard 0.5 mg/L C NIST Sucrose</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel PAT700</td>
<td>ISTOC1004</td>
<td>Calibration Standard 0.75 mg/L C NIST Sucrose</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel PAT700</td>
<td>ISTOC1005</td>
<td>USP Reagent Water System Suitability Standard</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel PAT700</td>
<td>ISTOC1006</td>
<td>0.5mg/L C from USP Sucrose System Suitability Standard</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel PAT700</td>
<td>ISTOC1007</td>
<td>0.5mg/L C from USP 1,4 Benzoquinone System Suitability Standard</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel PAT700</td>
<td>ISTOC1009</td>
<td>USP System Suitability Set; Reagent Water, 0.5mg/L C Sucrose and 0.5mg/L C 1,4- Benzoquinone</td>
<td>Kit (3x60ml)</td>
</tr>
<tr>
<td>Anatel PAT700</td>
<td>ISTOC1015</td>
<td>100uS/cm Conductivity Standard for Calibration</td>
<td>40ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1171</td>
<td>Validation Kit; 2 x Blanks and 0.5 mg/L C NIST Sucrose</td>
<td>Kit (3x60ml)</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1014</td>
<td>100uS/cm Conductivity Standard for Calibration</td>
<td>125ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1021</td>
<td>Calibration Blank</td>
<td>125ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1031</td>
<td>Calibration Standard 0.25 mg/L C NIST Sucrose</td>
<td>125ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1035</td>
<td>Calibration Standard 0.5 mg/L C NIST Sucrose</td>
<td>125ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1039</td>
<td>Calibration Standard 0.75 mg/L C NIST Sucrose</td>
<td>125ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1079</td>
<td>Calibration Blank</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1081</td>
<td>Calibration Standard 0.25 mg/L C NIST Sucrose</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1082</td>
<td>Calibration Standard 0.5 mg/L C NIST Sucrose</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1083</td>
<td>Calibration Standard 0.75 mg/L C NIST Sucrose</td>
<td>60ml</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1123</td>
<td>USP System Suitability Set; Reagent Water, 0.5mg/L C Sucrose and 0.5mg/L C 1,4- Benzoquinone</td>
<td>Kit (3x125ml)</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1167</td>
<td>Calibration Kit; Blank, 0.25mg/L C NIST Sucrose, 0.5 mg/L C NIST Sucrose and 0.75mg/L C NIST Sucrose</td>
<td>Kit (3x60ml)</td>
</tr>
<tr>
<td>Anatel TOC600</td>
<td>ISTOC1170</td>
<td>Validation Kit; Blank and 0.5mg/L C NIST Sucrose</td>
<td>Kit (2x60ml)</td>
</tr>
<tr>
<td>Comet Analytics</td>
<td>ISTOC1133</td>
<td>Reagent Water, 0.5 mg/L C from USP Sucrose and 0.5 mg/L C USP 1,4- Benzoquinone</td>
<td>Kit (3x250ml)</td>
</tr>
<tr>
<td>Horiba</td>
<td>ISTOC1176</td>
<td>USP System Suitability Kit;Reagent Water, 0.5 mg/L C from USP Sucrose and 0.5 mg/L C USP 1,4- Benzoquinone</td>
<td>Kit (3x1L)</td>
</tr>
<tr>
<td>Horiba</td>
<td>ISTOC1200</td>
<td>USP Reagent Water</td>
<td>1L</td>
</tr>
<tr>
<td>Instrument</td>
<td>Product</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Horiba</td>
<td>ISTOC1201</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>1L</td>
</tr>
<tr>
<td>Horiba</td>
<td>ISTOC1202</td>
<td>0.5mg/L C from USP 1,4 - Benzoquinone</td>
<td>1L</td>
</tr>
<tr>
<td>Lighthouse</td>
<td>ISTOC1160</td>
<td>USP System Suitability Kit; 2 x Reagent Water, 0.5mg/L C Sucrose and 0.5mg/L C 1.4- Benzoquinone</td>
<td>Kit (3x60ml)</td>
</tr>
<tr>
<td>Lighthouse</td>
<td>ISTOC1166</td>
<td>Validation Set; 2 x Blanks, 0.25 mg/L C NIST Sucrose, 0.5 mg/L C NIST Sucrose and 0.75 mg/L C NIST Sucrose</td>
<td>Kit (5x60ml)</td>
</tr>
<tr>
<td>Membrapure</td>
<td>ISTOC1177</td>
<td>USP System Suitability Kit; Reagent Water, 0.5 mg/L C from USP Sucrose and 0.5 mg/L C USP 1.4- Benzoquinone</td>
<td>Kit (3x500ml)</td>
</tr>
<tr>
<td>Membrapure</td>
<td>RTOCW500</td>
<td>TOC Standard USP Reagent Water Rw</td>
<td>500ml</td>
</tr>
<tr>
<td>Membrapure</td>
<td>RTOCRS500</td>
<td>TOC Standard USP Standard Sucrose Solution Rs (0.5mg/L C)</td>
<td>500ml</td>
</tr>
<tr>
<td>Membrapure</td>
<td>RTOCRSS500</td>
<td>TOC Standard USP System Suitability Solution 1 4-Benzoquinone (0.5mg/L C)</td>
<td>500ml</td>
</tr>
<tr>
<td>Membrapure</td>
<td>ISTOC1178</td>
<td>Membrapure USP Calibration Kit; Reagent water, 1.0 mg/L C USP Sucrose</td>
<td>Kit (2x500ml)</td>
</tr>
<tr>
<td>Membrapure</td>
<td>RTOCRS1</td>
<td>TOC Standard USP Standard Sucrose Solution (1.0 mg/L C)</td>
<td>500ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1018</td>
<td>TOC/TIC Calibration Blank</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1059</td>
<td>Calibration Standard 0.5mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1065</td>
<td>Calibration Standard 1mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1070</td>
<td>Calibration Standard 5mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1072</td>
<td>Calibration Standard 10mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1074</td>
<td>Calibration Standard 25mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1076</td>
<td>Calibration Standard 50mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1104</td>
<td>System Suitability Set to JP; Reagent Water and 0.5mg/L C from Sodium Dodecylbenzene Sulfonate</td>
<td>Kit (2x40ml)</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1106</td>
<td>JP Water</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1110</td>
<td>USP Reagent Water</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1111</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>40ml</td>
</tr>
<tr>
<td>OI Analytical</td>
<td>ISTOC1112</td>
<td>0.5mg/L C from USP 1.4 - Benzoquinone</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1018</td>
<td>Individual TOC/TIC Calibration Blank</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1041</td>
<td>Validation Kit for TOC contains a blank and 2 x 100mg/L C NIST KHP</td>
<td>Kit (3x125ml)</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1042</td>
<td>Validation Kit for TOC contains a blank and 2 x 10mg/L C NIST KHP</td>
<td>Kit (3x125ml)</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1043</td>
<td>Validation Kit for Wet Chemistry TOC contains 3 x blanks, 2 x 0.5 mg/L C NIST KHP and 1mg/L C NIST KHP</td>
<td>Kit (6x40ml)</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1044</td>
<td>Calibration Kit; 2 x blanks, 2 x 0.1 mg/L C NIST KHP, 2 X 0.25 mg/L C NIST KHP, 2 X 0.5 mg/L C NIST KHP, 0.75mg/L C NIST KHP and 1mg/L C NIST KHP</td>
<td>Kit (10x40ml)</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1054</td>
<td>Calibration Standard 0.1mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1055</td>
<td>Calibration Standard 0.25mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1059</td>
<td>Calibration Standard 0.5mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1064</td>
<td>Calibration Standard 0.75mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimazdu</td>
<td>ISTOC1065</td>
<td>Calibration Standard 1mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Instrument</td>
<td>Product</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1070</td>
<td>Calibration Standard 5mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1072</td>
<td>Calibration Standard 10mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1074</td>
<td>Calibration Standard 25mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1076</td>
<td>Calibration Standard 50mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1104</td>
<td>System Suitability Set to JP; Reagent Water and 0.5mg/L C from Sodium Dodecylbenzene Sulfonate</td>
<td>Kit (2x40ml)</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1106</td>
<td>JP Reagent Water</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1110</td>
<td>USP Reagent Water</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1111</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1112</td>
<td>0.5mg/L C from USP 1,4-Benzoquinone</td>
<td>40ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1118</td>
<td>USP Reagent Water</td>
<td>125ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1120</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>125ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1121</td>
<td>0.5mg/L C from USP 1,4-Benzoquinone</td>
<td>125ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1125</td>
<td>USP Reagent Water</td>
<td>250ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1126</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>250ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1127</td>
<td>0.5mg/L C from USP 1,4-Benzoquinone</td>
<td>250ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1128</td>
<td>USP System Suitability Set; Reagent Water, 0.5mg/L C Sucrose and 0.5mg/L C 1,4-Benzoquinone</td>
<td>Kit (3x250ml)</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1139</td>
<td>USP System Suitability Set; Reagent Water, 0.5mg/L C Sucrose and 0.5mg/L C 1,4-Benzoquinone</td>
<td>Kit (3x500ml)</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1140</td>
<td>USP Reagent Water</td>
<td>500ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1141</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>500ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1142</td>
<td>0.5mg/L C from USP 1,4-Benzoquinone</td>
<td>500ml</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1153</td>
<td>USP System Suitability Set; Reagent Water, 0.5mg/L C Sucrose and 0.5mg/L C 1,4-Benzoquinone</td>
<td>Kit (3x1L)</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1154</td>
<td>USP Reagent Water</td>
<td>1L</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1155</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>1L</td>
</tr>
<tr>
<td>Shimadzu</td>
<td>ISTOC1156</td>
<td>0.5mg/L C from USP 1,4-Benzoquinone</td>
<td>1L</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1133</td>
<td>Reagent Water, 0.5 mg/L C from USP Sucrose and 0.5 mg/L C USP 1,4-Benzoquinone</td>
<td>Kit (3x250ml)</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1186</td>
<td>Swan AMI LineTOC 0.5 mg/L C USP 1,4-Benzoquinone</td>
<td>125ml</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1185</td>
<td>Swan AMI LineTOC 0.5 mg/L C USP Sucrose</td>
<td>125ml</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1188</td>
<td>Swan AMI LineTOC 20 mg/L C USP 1,4-Benzoquinone</td>
<td>125ml</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1187</td>
<td>Swan AMI LineTOC 20 mg/L C USP Sucrose</td>
<td>125ml</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1182</td>
<td>Swan AMI LineTOC Calibration Standard 1 mg/L C Sucrose</td>
<td>250ml</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1181</td>
<td>Swan AMI LineTOC FT Kit; TOC Standard 20 mg/L C as Sucrose, 20 mg/L C as 1,4-Benzoquinone</td>
<td>Kit (2x125ml)</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1179</td>
<td>Swan AMI LineTOC USP Calibration Kit; Reagent Water, 1.0 mg/L C USP Sucrose</td>
<td>Kit (2x250ml)</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1183</td>
<td>Swan AMI LineTOC USP Reagent Water</td>
<td>250ml</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1184</td>
<td>Swan AMI LineTOC USP Reagent Water</td>
<td>125ml</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1180</td>
<td>Swan AMI LineTOC USP SST Kit; Reagent Water, 0.5 mg/L C USP Sucrose, 0.5 mg/L C USP 1,4-Benzoquinone</td>
<td>Kit (3x125ml)</td>
</tr>
<tr>
<td>Instrument</td>
<td>Product</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1195</td>
<td>Swan AMI LineTOC 0.5 mg/L C USP 1,4- Benzoquinone</td>
<td>250ml</td>
</tr>
<tr>
<td>Swan Analytical</td>
<td>ISTOC1196</td>
<td>Swan AMI LineTOC 0.5 mg/L C USP Sucrose</td>
<td>250ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1018</td>
<td>Individual TOC/TIC Calibration Blank</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1020</td>
<td>Individual TOC/TIC Calibration Blank</td>
<td>125ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1059</td>
<td>Calibration Standard 0.5mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1061</td>
<td>Calibration Standard 0.5mg/L C NIST KHP</td>
<td>125ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1065</td>
<td>Calibration Standard 1mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1067</td>
<td>Calibration Standard 1mg/L C NIST KHP</td>
<td>125ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1070</td>
<td>Calibration Standard 5mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1071</td>
<td>Calibration Standard 5mg/L C NIST KHP</td>
<td>125ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1072</td>
<td>Calibration Standard 10mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1073</td>
<td>Calibration Standard 10mg/L C NIST KHP</td>
<td>125ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1074</td>
<td>Calibration Standard 25mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1075</td>
<td>Calibration Standard 25mg/L C NIST KHP</td>
<td>125ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1076</td>
<td>Calibration Standard 50mg/L C NIST KHP</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1077</td>
<td>Calibration Standard 50mg/L C NIST KHP</td>
<td>125ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1088</td>
<td>Ultra Low-Level TOC Kit; 3 x TOC Water Blanks, 9 TOC Standards (0.05, 0.06, 0.07, 0.08, 0.09, 0.1, 0.25, 0.5 and 1mg/L C) from NIST KHP</td>
<td>Kit (12x40ml)</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1104</td>
<td>System Suitability Set to JP; Reagent Water and 0.5mg/L C from Sodium Dodecylbenzene Sulfonate</td>
<td>Kit (2x40ml)</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1106</td>
<td>JP Reagent Water</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1110</td>
<td>USP Reagent Water</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1111</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1112</td>
<td>0.5mg/L C from USP 1,4 - Benzoquinone</td>
<td>40ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1113</td>
<td>USP System Suitility Kit; Reagent Water, 0.5 mg/L C from USP Sucrose and 0.5 mg/L C USP 1,4- Benzoquinone</td>
<td>Kit (3x125ml)</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1118</td>
<td>USP Reagent Water</td>
<td>125ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1120</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>125ml</td>
</tr>
<tr>
<td>Teledyne Tekmar</td>
<td>ISTOC1121</td>
<td>0.5mg/L C from USP 1,4 - Benzoquinone</td>
<td>125ml</td>
</tr>
<tr>
<td>Thronton 5000</td>
<td>ISTOC1047</td>
<td>Calibration Blank</td>
<td>500ml</td>
</tr>
<tr>
<td>Thronton 5000</td>
<td>ISTOC1048</td>
<td>Calibration Standard 0.25 mg/L C NIST Sucrose</td>
<td>500ml</td>
</tr>
<tr>
<td>Thronton 5000</td>
<td>ISTOC1049</td>
<td>Calibration Standard 0.5 mg/L C NIST Sucrose</td>
<td>500ml</td>
</tr>
<tr>
<td>Thronton 5000</td>
<td>ISTOC1050</td>
<td>Calibration Kit; 2 x Calibration Blanks, 0.25 mg/L C Sucrose and 0.5 mg/L C Sucrose</td>
<td>Kit (4x500ml)</td>
</tr>
<tr>
<td>Thronton 5000</td>
<td>ISTOC1053</td>
<td>Calibration Standard 1.25 mg/L C NIST Sucrose</td>
<td>500ml</td>
</tr>
<tr>
<td>Thronton 5000</td>
<td>ISTOC1144</td>
<td>USP Reagent Water</td>
<td>500ml</td>
</tr>
<tr>
<td>Thronton 5000</td>
<td>ISTOC1145</td>
<td>0.5mg/L C from USP Sucrose</td>
<td>500ml</td>
</tr>
<tr>
<td>Thronton 5000</td>
<td>ISTOC1146</td>
<td>0.5mg/L C from USP 1,4 - Benzoquinone</td>
<td>500ml</td>
</tr>
<tr>
<td>Thronton 5000</td>
<td>ISTOC1148</td>
<td>USP System Suitility Kit; Reagent Water, 0.5 mg/L C from USP Sucrose and 0.5 mg/L C USP 1,4- Benzoquinone</td>
<td>Kit (3x500ml)</td>
</tr>
</tbody>
</table>
Conductivity Standards

Introduction
Reagecon is the world’s largest producer of conductivity standards and is credited with the invention of low level aqueous standards. The company is still the only producer worldwide with the capability to manufacture and stabilise these products at such low levels of conductivity. This low range of standards includes 1.3µS ±0.5µS - the lowest aqueous conductivity standard available worldwide. The following summary details the principle features and benefits of this exciting range of products.

Extensive range of values
Reagecon offer over 45 different values of Conductivity and Total Dissolved Solids (TDS) standards, ranging from as low as 1.3µS/cm to as high as 500,000µS/cm. Customised or bespoke values can be manufactured on demand.

Matrix Matched
The matrix of a solution is defined as “the components of the sample other than the analyte”. In all analytical measurements, it is of utmost importance that the matrix of the standard and the sample are the same. As conductivity measurement is, in the main, a water quality measurement, the standard used should also have an aqueous matrix. Reagecon’s conductivity standards are all aqueous based, thereby eliminating any errors attributable to matrix mismatch.

Non-Hazardous
As Reagecon’s conductivity standards are aqueous, they are non-hazardous. They offer the following benefits over solvent-based conductivity standards

- Ease and cost of shipping, without the need to provide hazardous goods’ paperwork
- Reduced Health & Safety requirements for storage and use
- Ease and cost of disposal - solvent-based conductivity standards require expensive, specialised disposal to comply with environmental regulations.

Guaranteed Stability
As a result of the extensive R&D that led to our innovative manufacturing process, Reagecon can guarantee the stability of their complete range of conductivity standards over their entire shelf life. The stability offered by Reagecon’s conductivity standards varies from that of their competitors in one vital area. We can guarantee that our conductivity standards will remain within specification, (up to their expiry date), right through their working life, regardless of when the bottle was first opened provided Good Laboratory Practise is adhered to. This eliminates the need to open a fresh bottle of standard every time the product is used. (The 1.3µS/cm conductivity standard is packaged in single-dose bottles and each bottle when opened can only be used once.) The shelf life of the products from their date of manufacture are given below.

<table>
<thead>
<tr>
<th>Conductivity Value (µS/cm)</th>
<th>Shelf Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3 &amp; 3</td>
<td>3 months</td>
</tr>
<tr>
<td>5 &amp; 10</td>
<td>6 months</td>
</tr>
<tr>
<td>20 - 147</td>
<td>12 months</td>
</tr>
<tr>
<td>200 - 500,000</td>
<td>18 months</td>
</tr>
</tbody>
</table>
Accuracy
All standards have a specification of ± 1%, except 1.30µS/cm, which has a specification of 1.25 - 1.35µS/cm. This high level of accuracy enables the standards to be used as calibrators and/or controls in fulfilment of the most exacting industrial statutory requirements, for example the United States Pharmacopoeia monograph for Water for Injection.

Accreditation
Reagecon’s conductivity measurement has been covered in the scope of our accreditation to ISO 17025 "General Requirements for the competence of Calibration and Testing Laboratories" and its predecessor, EN 45001, since 1990. ISO/IEC 17025 (INAB Ref. 264T). Achieving accreditation involves fulfilling many highly technical criteria, including fully validating our test methods and instrumentation systems and characterising our measurement uncertainty. Reagecon’s accreditation proves the technical competence of our personnel, the technical validity of our test procedures and the traceability of our measurements. Therefore, in purchasing a conductivity standard from us, not only do you have transparent traceability to primary standards, but you also have confidence that our standards are of a well-defined and tightly controlled specification.

All values are Certified & Traceable
Comprehensive Certificates of Analysis are available for all of Reagecon’s conductivity standards, including detailed information on:

- Product Number
- Lot Number
- Expiry Date
- Mean specific conductance
- Date of Measurement
- Assay Limits
- Test Method Used
- Uncertainty of Measurement and Traceability Data

The complete range is traceable to primary standards from the United States National Institute for Standards and Technology (NIST). The traceability of these standards is proven by the inclusion of conductivity testing in our ISO 17025 accreditation. It is a fundamental requirement of ISO 17025 that traceability is proven.

Characterised Temperature Coefficient of Variation
Reagecon’s standards are aqueous based and consequently have a very low temperature coefficient of variation. A table of conductivity variation with temperature is printed on the label of each bottle. This feature provides the user with all the information necessary to use the products across the full range of measurement temperatures encountered for their application. Non-aqueous standards have a very high coefficient of variation which leads to measurement error and renders the products totally unsuitable for non-temperature controlled conditions, or field work.

Unparalleled Technical Support
We have been manufacturing conductivity standards for over 20 years. In that time, we have built up a vast resource of technical expertise on all aspects of conductivity measurement. The members of Reagecon’s Technical Services Department have written a comprehensive series of papers covering all of the practical requirements for accurate conductivity measurement.

These papers and the Reagecon book, “A Practical Guide to Accurate Conductivity Measurement” are available via our website - www.reagecon.com Our Technical Services team is always on hand to answer any questions regarding the selection and use of conductivity instruments, sensors and standards.
## Conductivity Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSKC13</td>
<td>1.30 µS/cm @25°C</td>
<td>250ml</td>
</tr>
<tr>
<td>CSKC136</td>
<td>1.30 µS/cm @25°C</td>
<td>6 x 250ml</td>
</tr>
<tr>
<td>CSKC5</td>
<td>5 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC1025</td>
<td>10 µS/cm @25°C</td>
<td>250ml</td>
</tr>
<tr>
<td>CSKC10256</td>
<td>10 µS/cm @25°C</td>
<td>6 x 250ml</td>
</tr>
<tr>
<td>CSKC10</td>
<td>10 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC10-10L</td>
<td>10 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC1325</td>
<td>13.25 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC13.4</td>
<td>13.4 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC15-250ml</td>
<td>15 µS/cm @25°C</td>
<td>250ml</td>
</tr>
<tr>
<td>CSKC15</td>
<td>15 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC20</td>
<td>20 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC238</td>
<td>23.8 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC238-1L</td>
<td>23.8 µS/cm @25°C</td>
<td>1L</td>
</tr>
<tr>
<td>CSKC238-5L</td>
<td>23.8 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKC25-250ml</td>
<td>25 µS/cm @25°C</td>
<td>250ml</td>
</tr>
<tr>
<td>CSKC25</td>
<td>25 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC50</td>
<td>50 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC8425</td>
<td>84 µS/cm @25°C</td>
<td>250ml</td>
</tr>
<tr>
<td>CSKC84</td>
<td>84 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC84-5L</td>
<td>84 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKC84-25L</td>
<td>84 µS/cm @25°C</td>
<td>25L</td>
</tr>
<tr>
<td>CSKC100</td>
<td>100 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC100-5L</td>
<td>100 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKCS-250ml</td>
<td>147 µS/cm @25°C</td>
<td>250ml</td>
</tr>
<tr>
<td>CSKC5</td>
<td>147 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC-10L</td>
<td>147 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC185</td>
<td>185 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC150</td>
<td>150 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC150</td>
<td>185 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC200</td>
<td>200 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC200-5L</td>
<td>200 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKC250</td>
<td>250 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC300</td>
<td>300 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC300-5L</td>
<td>300 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKC400</td>
<td>400 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC400-5L</td>
<td>400 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKC50025</td>
<td>500 µS/cm @25°C</td>
<td>250ml</td>
</tr>
<tr>
<td>CSKC500256</td>
<td>500 µS/cm @25°C</td>
<td>6 x 250ml</td>
</tr>
<tr>
<td>CSKC500</td>
<td>500 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC500-5L</td>
<td>500 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>CSKC600-5L</td>
<td>600 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKC718</td>
<td>718 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC1000</td>
<td>1,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC1000-10L</td>
<td>1,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKCL-50ml</td>
<td>1,413 µS/cm @25°C</td>
<td>50ml</td>
</tr>
<tr>
<td>CSKCL01</td>
<td>1,413 µS/cm @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>CSKCL-250ml</td>
<td>1,413 µS/cm @25°C</td>
<td>250ml</td>
</tr>
<tr>
<td>CSKCL</td>
<td>1,413 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKCL1</td>
<td>1,413 µS/cm @25°C</td>
<td>1L</td>
</tr>
<tr>
<td>CSKCL-5L</td>
<td>1,413 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKCL-10L</td>
<td>1,413 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSK2M</td>
<td>2,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSK2M-10L</td>
<td>2,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSK2500</td>
<td>2,500 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSK2500-10L</td>
<td>2,500 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC3M</td>
<td>3,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC3M-10L</td>
<td>3,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC5M</td>
<td>5,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC5M-10L</td>
<td>5,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC7M</td>
<td>7,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC7M - 5L</td>
<td>7,000 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKC10M</td>
<td>10,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC10M-10L</td>
<td>10,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC12880-50ML</td>
<td>12,880 µS/cm @25°C</td>
<td>50ml</td>
</tr>
<tr>
<td>CSKC12880</td>
<td>12,880 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC12880-1L</td>
<td>12,880 µS/cm @25°C</td>
<td>1L</td>
</tr>
<tr>
<td>CSKC12880-10L</td>
<td>12,880 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC1325M</td>
<td>13,250 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC13400</td>
<td>13,400 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC15M</td>
<td>15,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC20M</td>
<td>20,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC20M-10L</td>
<td>20,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC30M</td>
<td>30,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC30M-10L</td>
<td>30,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC35M</td>
<td>35,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC40M</td>
<td>40,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC50M</td>
<td>50,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC50M-10L</td>
<td>50,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC58700</td>
<td>58,700 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC60M</td>
<td>60,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKCB0M</td>
<td>80,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKCB0M-10L</td>
<td>80,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>CSKC84M</td>
<td>84,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC100M</td>
<td>100,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC100M-10L</td>
<td>100,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC111800</td>
<td>111,800 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC150M</td>
<td>150,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC150M-10L</td>
<td>150,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC200M</td>
<td>200,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC200M-5L</td>
<td>200,000 µS/cm @25°C</td>
<td>5L</td>
</tr>
<tr>
<td>CSKC200M-10L</td>
<td>200,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC300M</td>
<td>300,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC300M-10L</td>
<td>300,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC350M</td>
<td>350,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC350M-10L</td>
<td>350,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC400M</td>
<td>400,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC450M</td>
<td>450,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC450M-10L</td>
<td>450,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
<tr>
<td>CSKC500M</td>
<td>500,000 µS/cm @25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>CSKC500M-10L</td>
<td>500,000 µS/cm @25°C</td>
<td>10L</td>
</tr>
</tbody>
</table>

**Non Accredited Values Available**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSKC2</td>
<td>2 µS/cm @25°C</td>
<td>250ml</td>
</tr>
<tr>
<td>CSKC3</td>
<td>3 µS/cm @25°C</td>
<td>250ml</td>
</tr>
</tbody>
</table>

* Other Values Available upon Request

**TDS Standard**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS1382-50ml</td>
<td>1382 ppm NaCl @25°C</td>
<td>50ml</td>
</tr>
<tr>
<td>CS1382</td>
<td>1382 ppm NaCl @25°C</td>
<td>500ml</td>
</tr>
</tbody>
</table>
**Guaranteed Traceability**

Reagecon’s pH buffer standards are directly traceable to the IUPAC pH scale by an unbroken chain of traceability. Reagecon achieve this traceability through a series of comparisons, with the key reference materials being Standard Reference Materials (SRMs) manufactured by NIST.

For proof of traceability, all of these comparisons must be made in a technically-valid manner and the accuracy of each step must be quantified by calculating the associated Uncertainty of Measurement. Reagecon’s pH buffer standards meet the ISO definition of traceability: “The ability to relate measurements back to a stated reference (usually an international standard) through an unbroken chain of comparisons, each having stated uncertainties of measurement.” Reagecon’s traceability claims are guaranteed by our accreditation to ISO/IEC 17025.

**Why use traceable pH buffers?**

Your pH measurements can only be as good as the pH buffers that you use. If your pH calibration is made using traceable pH buffers then you have a direct link to the International pH scale for your measurements. Without this link, you are not entitled to report your measurements in pH units so the number displayed on your pH meter is just that - a number and is not a pH value. The common link that is achieved by traceability allows comparability of results regardless of:

- When the measurements were made
- Where the measurements were made
- What instrumentation was used to make the measurements

Traceable analysis is necessary for consistency and universal acceptance of your pH results - including acceptance by regulatory bodies.

**Fully Accredited**

Reagecon’s pH analysis is accredited to ISO/IEC 17025 (INAB Ref:264T) “General requirements for the competence of testing and calibration laboratories”. Reagecon’s accreditation to ISO/IEC 17025 gives independent proof of three key areas:

- Our pH analysis is technically valid and is carried out in a thoroughly controlled manner by highly-qualified staff.
- Our claims over the accuracy of our pH analysis are valid and we have properly quantified our accuracy in our Uncertainty of Measurement calculations.
- Our pH analysis is traceable to NIST SRMs. It is important to note that NIST do not police claims of traceability to their SRMs. Any manufacturer of pH buffers can claim that their buffers are traceable to NIST, but only manufacturers that are accredited to ISO/IEC 17025 have independent proof of their traceability.

Reagecon’s accreditation is indicated by the Irish National Accreditation Board (INAB) logo on our Certificates of Analysis for pH Buffers. Accreditation by INAB and all other accreditation boards validated to accredit ISO/IEC 17025 are mutually recognised as being directly equivalent.

Why take chances with your pH buffer supplier’s traceability? By using buffers from a manufacturer that holds ISO/IEC 17025 accreditation you have a guarantee of traceability.
Stability
Reagecon’s pH buffers have been specially formulated to ensure their stability. The packaging bottles that we use have also been selected and tested to provide maximum stability. We have conducted stability trials on both freshly-opened and part-full bottles of our pH buffers to validate their shelf-life - an example is given in Figure 2. This demonstrates that Reagecon’s pH buffers will stay within their specification limits up to the stated expiry date regardless of when the bottle was first opened (provided that the pH buffer is stored in accordance with good laboratory practice). Most of Reagecon’s pH buffers have an expiry date of either 2 years or 3 years from the date of manufacture.

This means that our pH buffers’ expiry dates are an absolute value and they have a long “Active Life”. We do not quote a short usage period after opening the bottle and there is no need to record by hand an “Opened on date” and a “Use by date”. With Reagecon’s pH buffers you just open the bottle and use the contents - with other manufacturers’ pH buffers you need to record these extra dates and may need to dispose of most of the contents of the bottle at the end of its short “Active Life”.

![Figure 2: Stability Data for Reagecon pH 10.012 @ 25°C](image)

Packaging Options
Besides regular bottles, Reagecon offer pH buffers in a wide variety of convenient packaging options:

- **Twin-neck bottles.** These bottles are ideal for use with portable pH meters. Their integral calibration chamber prevents contamination and removes the need to carry a separate measuring container or to decant buffers for use in the field.
- **Bag-in-Box containers.** This packaging consists of a cardboard box with a collapsible plastic liner. This offers a space-saving alternative to bottles and reduces the amount of packaging waste for disposal. Every Bag-in-Box container is supplied with a tap to allow the contents to be easily dispensed.
- **Capsules.** The presentation of pH buffers in capsule format is an innovative concept developed by Reagecon, and offers several advantages.
- **RECAL Buffers.** RECAL is a range of pH Buffers in a wide mouth disposable container which can be used for direct calibration of the electrode and then discarded on completion.
Extensive Range of pH values

Reagecon manufacture the most comprehensive range of pH reagents in the world; these are designed to suit all end user requirements. These include laboratory grade buffers, the Professional Range (buffer standards as per N.I.S.T/DIN and high resolution buffers), low ionic strength buffers and pH buffer capsules. We are delighted to add several new offerings that include buffers to calibrate Antimony electrodes, Sterile Buffers and colour coded pH buffers with a three decimal place specification. All are manufactured to exacting specifications with an extended shelf life and cover the pH range of pH 1.00 to pH 13.00 inclusive. All are supplied with a detailed Certificate of Analysis which outlines traceability to N.I.S.T (the N.I.S.T SRM(s) Lot No. is stated on the certificate). Temperature dependence data is printed on the label as are lot numbers and expiry dates.

Calibration Buffers

Reagecon pH Buffers are pre-programmed into the instruments of most major manufacturers.

Control Buffers

For increased confidence in their test measurements, analysts should regularly measure the pH of a Control Standard. If an acceptable value is obtained from the Control Standard measurement then the analysts, can have improved confidence that their test measurements will be correct. Reagecon’s extensive range of pH buffers means that there will be a Reagecon pH buffer which can be used as a control buffer for all pH applications.

pH Buffers @ 20°C

Clear, Colourless pH Buffer Solutions. Tested at 20°C and certified by Reagecon’s ISO 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
<th>Product No. 1L</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 1.00 ± 0.02 @20°C</td>
<td>10105</td>
<td>1010</td>
<td>5010</td>
</tr>
<tr>
<td>pH 1.20 ± 0.02 @20°C</td>
<td>10125</td>
<td>1012</td>
<td>5012</td>
</tr>
<tr>
<td>pH 2.00 ± 0.02 @20°C</td>
<td>10205</td>
<td>1020</td>
<td>5020</td>
</tr>
<tr>
<td>pH 3.00 ± 0.02 @20°C</td>
<td>10305</td>
<td>1030</td>
<td>5030</td>
</tr>
<tr>
<td>pH 4.00 ± 0.01 @20°C</td>
<td>10405</td>
<td>1040</td>
<td>5040</td>
</tr>
<tr>
<td>pH 4.00 ± 0.01 @20°C (Phthalate Free)</td>
<td>CC10405</td>
<td>CC1040</td>
<td>CC5040</td>
</tr>
<tr>
<td>pH 5.00 ± 0.01 @20°C</td>
<td>10505</td>
<td>1050</td>
<td>5050</td>
</tr>
<tr>
<td>pH 6.00 ± 0.01 @20°C</td>
<td>10605</td>
<td>1060</td>
<td>5060</td>
</tr>
<tr>
<td>pH 6.80 ± 0.01 @20°C</td>
<td>10685</td>
<td>1068</td>
<td>5068</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @20°C</td>
<td>10705</td>
<td>1070</td>
<td>5070</td>
</tr>
<tr>
<td>pH 8.00 ± 0.01 @20°C</td>
<td>10805</td>
<td>1080</td>
<td>5080</td>
</tr>
<tr>
<td>pH 9.00 ± 0.01 @20°C</td>
<td>10905</td>
<td>1090</td>
<td>5090</td>
</tr>
<tr>
<td>pH 9.20 ± 0.01 @20°C</td>
<td>10925</td>
<td>10920</td>
<td>50920</td>
</tr>
<tr>
<td>pH 9.22 ± 0.01 @20°C</td>
<td>109220</td>
<td>10922</td>
<td>50922</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01 @20°C</td>
<td>11005</td>
<td>1100</td>
<td>5100</td>
</tr>
<tr>
<td>pH 11.00 ± 0.05 @20°C</td>
<td>11105</td>
<td>1110</td>
<td>5110</td>
</tr>
<tr>
<td>pH 12.00 ± 0.05 @20°C</td>
<td>11205</td>
<td>1120</td>
<td>5120</td>
</tr>
<tr>
<td>pH 13.00 ± 0.05 @20°C</td>
<td>11305</td>
<td>1130</td>
<td>5130</td>
</tr>
</tbody>
</table>
**pH Buffers @ 25°C**


<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
<th>Product No. 1L</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 1.00 ± 0.02 @25°C</td>
<td>1010525</td>
<td>101025</td>
<td>501025</td>
</tr>
<tr>
<td>pH 1.68 ± 0.02 @25°C</td>
<td>10168</td>
<td>1016825</td>
<td>5016825</td>
</tr>
<tr>
<td>pH 2.00 ± 0.02 @25°C</td>
<td>1020525</td>
<td>102025</td>
<td>502025</td>
</tr>
<tr>
<td>pH 2.00 ± 0.02 @25°C (Mercury Free)</td>
<td>102025SMF</td>
<td>102025SMF</td>
<td>502025SMF</td>
</tr>
<tr>
<td>pH 3.00 ± 0.02 @25°C</td>
<td>1030525</td>
<td>103025</td>
<td>503025</td>
</tr>
<tr>
<td>pH 4.00 ± 0.01 @25°C</td>
<td>1040525</td>
<td>104025</td>
<td>504025</td>
</tr>
<tr>
<td>pH 4.00 ± 0.01 @25°C (Phthalate Free)</td>
<td>CC1040525</td>
<td>CC104025</td>
<td>CC504025</td>
</tr>
<tr>
<td>pH 5.00 ± 0.01 @25°C</td>
<td>1050525</td>
<td>105025</td>
<td>505025</td>
</tr>
<tr>
<td>pH 5.00 ± 0.01 @25°C (Mercury Free)</td>
<td>105025SMF</td>
<td>105025SMF</td>
<td>505025SMF</td>
</tr>
<tr>
<td>pH 6.00 ± 0.01 @25°C</td>
<td>1060525</td>
<td>106025</td>
<td>506025</td>
</tr>
<tr>
<td>pH 6.00 ± 0.01 @25°C (Mercury Free)</td>
<td>106025SMF</td>
<td>106025SMF</td>
<td>506025SMF</td>
</tr>
<tr>
<td>pH 6.80 ± 0.01 @25°C</td>
<td>1068525</td>
<td>106825</td>
<td>506825</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @25°C (Mercury Free)</td>
<td>1070525MF</td>
<td>107025SMF</td>
<td>507025SMF</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @25°C</td>
<td>1070525</td>
<td>107025</td>
<td>507025</td>
</tr>
<tr>
<td>pH 8.00 ± 0.01 @25°C</td>
<td>1080525</td>
<td>108025</td>
<td>508025</td>
</tr>
<tr>
<td>pH 8.00 ± 0.01 @25°C (Mercury Free)</td>
<td>108025SMF</td>
<td>108025SMF</td>
<td>508025SMF</td>
</tr>
<tr>
<td>pH 9.00 ± 0.01 @25°C</td>
<td>1090525</td>
<td>109025</td>
<td>509025</td>
</tr>
<tr>
<td>pH 9.40 ± 0.01 @25°C</td>
<td>1094025</td>
<td>10940251</td>
<td>5094025</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01 @25°C</td>
<td>1100525</td>
<td>110025</td>
<td>510025</td>
</tr>
<tr>
<td>pH 11.00 ± 0.05 @25°C</td>
<td>1110525</td>
<td>111025</td>
<td>511025</td>
</tr>
<tr>
<td>pH 12.00 ± 0.05 @25°C</td>
<td>1120525</td>
<td>112025</td>
<td>512025</td>
</tr>
<tr>
<td>pH 13.00 ± 0.05 @25°C</td>
<td>1130525</td>
<td>113025</td>
<td>513025</td>
</tr>
</tbody>
</table>

**Colour Coded Buffers @ 20°C**

Coloured pH Buffer Solutions. Tested at 20°C and certified by Reagecon’s ISO 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 30ml</th>
<th>Product No. 100ml</th>
<th>Product No. 250ml</th>
<th>Product No. 500ml</th>
<th>Product No. 1L</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.00 ± 0.01 @20°C (Red)</td>
<td>1040C030</td>
<td>1040C100</td>
<td>10402C</td>
<td>10405C</td>
<td>1040C</td>
<td>5040C</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @20°C (Yellow)</td>
<td>1070C030</td>
<td>1070C100</td>
<td>10702C</td>
<td>10705C</td>
<td>1070C</td>
<td>5070C</td>
</tr>
<tr>
<td>pH 9.00 ± 0.01 @20°C (Blue)</td>
<td>1090C030</td>
<td>1090C100</td>
<td>10902C</td>
<td>10905C</td>
<td>1090C</td>
<td>5090C</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01 @20°C (Blue)</td>
<td>1100C030</td>
<td>1100C100</td>
<td>11002C</td>
<td>11005C</td>
<td>1100C</td>
<td>5100C</td>
</tr>
</tbody>
</table>
Colour Coded Buffers @ 25°C


<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
<th>Product No. 1L</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.00 ± 0.01 @25°C (Red)</td>
<td>1040525C</td>
<td>104025C</td>
<td>504025C</td>
</tr>
<tr>
<td>pH 4.00 ± 0.01@ 25°C (Red) (Mercury Free)</td>
<td>1040525CMF</td>
<td>104025CMF</td>
<td>504025CMF</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @25°C (Yellow)</td>
<td>1070525C</td>
<td>107025C</td>
<td>507025C</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01@25°C (Yellow)(Mercury Free)</td>
<td>1070525CMF</td>
<td>107025CMF</td>
<td>507025CMF</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01 @25°C (Blue)</td>
<td>1100525C</td>
<td>110025C</td>
<td>510025C</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01@25°C (Blue) (Mercury Free)</td>
<td>1100525CMF</td>
<td>110025CMF</td>
<td>510025CMF</td>
</tr>
</tbody>
</table>

Twin Neck Bottle Format

pH Buffers are available in an attractive and innovative twin neck bottle.

The main advantages of this packaging are:

- No possibility of contamination
- No need for separate measuring container for use in the calibration of the Electrode
- Correct quantity of buffer required for calibration is dispensed
- into the calibrating chamber giving rise to no waste
- Ideally suited for field work
- Easy to carry
- 250ml, 500ml and 1L sizes available

Twin Neck Bottle Format @ 20°C

Coloured pH Buffer solutions in Twin-neck containers with integrated calibrating chamber. Tested at 20°C and certified by Reagecon’s ISO/IEC 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 250ml</th>
<th>Product No. 500ml</th>
<th>Product No. 1L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.00 ± 0.01 @20°C (Red)</td>
<td>10402CTT</td>
<td>10405CTT</td>
<td>1040CTT</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @20°C (Yellow)</td>
<td>10702CTT</td>
<td>10705CTT</td>
<td>1070CTT</td>
</tr>
<tr>
<td>pH 9.00 ± 0.01 @ 20°C (Blue)</td>
<td>10902CTT</td>
<td>10905CTT</td>
<td>1090CTT</td>
</tr>
<tr>
<td>pH 9.22 ± 0.01 @20°C</td>
<td>1092202TT</td>
<td>1092205TT</td>
<td>10922CTT</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01 @20°C (Blue)</td>
<td>11002CTT</td>
<td>11005CTT</td>
<td>1100CTT</td>
</tr>
</tbody>
</table>
## Twin Neck Bottle Format @ 25°C


<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 1.00 ± 0.02 @25°C</td>
<td>1010525TT</td>
</tr>
<tr>
<td>pH 2.00 ± 0.02 @25°C</td>
<td>1020525TT</td>
</tr>
<tr>
<td>pH 4.00 ± 0.01 @25°C (Red)</td>
<td>1040525CTT</td>
</tr>
<tr>
<td>pH 6.86 ± 0.01 @25°C (Yellow)</td>
<td>1068805CTT</td>
</tr>
<tr>
<td>pH 6.865 ± 0.01 @25°C</td>
<td>106865TT</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @25°C (Yellow)</td>
<td>1070525CTT</td>
</tr>
<tr>
<td>pH 9.00 ± 0.01 @25°C</td>
<td>1090525TT</td>
</tr>
<tr>
<td>pH 9.18 ± 0.01 @25°C (Blue)</td>
<td>109180CTT</td>
</tr>
<tr>
<td>pH 9.18 ± 0.01 @25°C</td>
<td>109180TT</td>
</tr>
<tr>
<td>pH 9.21 ± 0.01 @25°C (Blue)</td>
<td>1092125CTT</td>
</tr>
<tr>
<td>pH 9.21 ± 0.01 @25°C</td>
<td>1092125TT</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01 @25°C (Blue)</td>
<td>1100525CTT</td>
</tr>
<tr>
<td>pH 12.00 ± 0.05 @25°C</td>
<td>1120525TT</td>
</tr>
</tbody>
</table>

## pH Buffer Standards NIST Values @ 20°C

Clear, Colourless NIST Value pH Buffer Solutions. Tested at 20°C and certified by Reagecon’s ISO/IEC 17025 Accredited Test Method. NIST traceable and presented in 500ml bottles. Other pack sizes available upon request.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 1.675 ± 0.010 @20°C</td>
<td>101675</td>
</tr>
<tr>
<td>pH 1.677 ± 0.010 @20°C</td>
<td>101677</td>
</tr>
<tr>
<td>pH 3.788 ± 0.010 @20°C</td>
<td>103788</td>
</tr>
<tr>
<td>pH 4.001 ± 0.010 @20°C</td>
<td>104001</td>
</tr>
<tr>
<td>pH 6.881 ± 0.010 @20°C</td>
<td>106881</td>
</tr>
<tr>
<td>pH 7.429 ± 0.010 @20°C</td>
<td>107429</td>
</tr>
<tr>
<td>pH 9.225 ± 0.010 @20°C</td>
<td>109225</td>
</tr>
<tr>
<td>pH 10.062 ± 0.010 @20°C</td>
<td>110062</td>
</tr>
<tr>
<td>pH 12.627 ± 0.050 @20°C</td>
<td>112627</td>
</tr>
</tbody>
</table>
### pH Buffer Standards DIN 19266 values @ 25°C


<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 1.679 ± 0.010 @25°C</td>
<td>101679</td>
</tr>
<tr>
<td>pH 3.776 ± 0.010 @25°C</td>
<td>103776</td>
</tr>
<tr>
<td>pH 4.005 ± 0.010 @25°C</td>
<td>104005</td>
</tr>
<tr>
<td>pH 6.865 ± 0.010 @25°C</td>
<td>10687</td>
</tr>
<tr>
<td>pH 7.413 ± 0.010 @25°C</td>
<td>107413</td>
</tr>
<tr>
<td>pH 9.180 ± 0.010 @25°C</td>
<td>109180</td>
</tr>
<tr>
<td>pH 10.012 ± 0.010 @25°C</td>
<td>110012</td>
</tr>
<tr>
<td>pH 12.454 ± 0.050 @25°C</td>
<td>112454</td>
</tr>
</tbody>
</table>

### pH Buffer Standards DIN 19267 @25°C

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 1.09 @25°C</td>
<td>101095</td>
</tr>
<tr>
<td>pH 3.06 @25°C</td>
<td>103065</td>
</tr>
<tr>
<td>pH 4.65 @25°C</td>
<td>104655</td>
</tr>
<tr>
<td>pH 6.79 @25°C</td>
<td>106795</td>
</tr>
<tr>
<td>pH 9.23 @25°C</td>
<td>109235</td>
</tr>
<tr>
<td>pH 12.75 @25°C</td>
<td>112755</td>
</tr>
</tbody>
</table>

### High Resolution Buffers

Coloured High Resolution pH Buffer solutions. Tested at 20°C or 25°C and certified by Reagecon’s ISO/IEC 17025 Accredited Test Method. NIST traceable and presented in 500ml bottles. Other pack sizes available upon request.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.000 ± 0.010 @20°C (Red)</td>
<td>104000C</td>
</tr>
<tr>
<td>pH 4.000 ± 0.010 @25°C (Red)</td>
<td>H40525C</td>
</tr>
<tr>
<td>pH 4.000 ± 0.010 @25°C</td>
<td>H40525</td>
</tr>
<tr>
<td>pH 7.000 ± 0.010 @20°C (Yellow)</td>
<td>107000C</td>
</tr>
<tr>
<td>pH 7.000 ± 0.010 @25°C (Yellow)</td>
<td>H70525C</td>
</tr>
<tr>
<td>pH 7.000 ± 0.010 @25°C</td>
<td>H70525</td>
</tr>
<tr>
<td>pH 10.000 ± 0.010 @20°C (Blue)</td>
<td>110000C</td>
</tr>
<tr>
<td>pH 10.000 ± 0.010 @25°C (Blue)</td>
<td>H100525C</td>
</tr>
</tbody>
</table>

### Antimony Buffers

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 250ml</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 1.07 @25°C - Colourless</td>
<td>10725025</td>
<td>10725050</td>
</tr>
<tr>
<td>pH 4.00 ± 0.05 @25°C - Light Red</td>
<td>401025P</td>
<td>40102550</td>
</tr>
<tr>
<td>pH 7.01 at 25°C - Yellow</td>
<td>70125025</td>
<td>70125050</td>
</tr>
</tbody>
</table>
Technical pH Buffer Solutions @ 25°C


<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 250ml</th>
<th>Product No. 500ml</th>
<th>Product No. 1L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 2.00 ± 0.02 @25°C (Coloured)</td>
<td>TB2002</td>
<td>TB2000</td>
<td>TB2001</td>
</tr>
<tr>
<td>pH 4.01 ± 0.02 @25°C (Coloured)</td>
<td>TB4012</td>
<td>TB401</td>
<td>TB4011</td>
</tr>
<tr>
<td>pH 4.60 ± 0.02 @25°C (Coloured)</td>
<td>TB4602</td>
<td>TB460</td>
<td>TB46001</td>
</tr>
<tr>
<td>pH 7.00 ± 0.02 @25°C (Coloured)</td>
<td>TB7002</td>
<td>TB700</td>
<td>TB7001</td>
</tr>
<tr>
<td>pH 9.21 ± 0.02 @25°C (Coloured)</td>
<td>TB9212</td>
<td>TB921</td>
<td>TB9211</td>
</tr>
<tr>
<td>pH 10.00 ± 0.02 @25°C (Coloured)</td>
<td>TB1002</td>
<td>TB100</td>
<td>TB1001</td>
</tr>
</tbody>
</table>

Low Ionic Strength Buffers

Low Ionic Strength pH Buffer Solutions. Special buffers suitable for accurate measurement of low ionic strength samples. Tested at 20°C and certified by Reagecon’s ISO/IEC 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.10 ± 0.04 @20°C</td>
<td>LS41</td>
<td>LS415</td>
</tr>
<tr>
<td>pH 6.96 ± 0.04 @20°C</td>
<td>LS69</td>
<td>LS695</td>
</tr>
</tbody>
</table>

“Bag In Box” - Colour Coded @ 20°C

Coloured, Bag in Box pH Buffer solutions supplied in cubitainers with tap. Tested at 20°C and certified by Reagecon’s ISO/IEC 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 5L</th>
<th>Product No. 10L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.00 ± 0.01 @20°C (Red)</td>
<td>BPH01</td>
<td>BPH02</td>
</tr>
<tr>
<td>pH 6.00 ± 0.01 @20°C (Clear)</td>
<td>BPH34</td>
<td>BPH35</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @20°C (Yellow)</td>
<td>BPH03</td>
<td>BPH04</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01 @20°C (Blue)</td>
<td>BPH05</td>
<td>BPH06</td>
</tr>
</tbody>
</table>

Bag in Box - Colour Coded @ 25°C

Coloured, Bag in Box pH Buffer solutions supplied in cubitainers with tap. Tested at 25°C and certified by Reagecon’s ISO/IEC 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 5L</th>
<th>Product No. 10L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.00 ± 0.01 @25°C (Red)</td>
<td>BPH07</td>
<td>BPH08</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @25°C (Yellow)</td>
<td>BPH09</td>
<td>BPH10</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01 @25°C (Blue)</td>
<td>BPH11</td>
<td>BPH12</td>
</tr>
</tbody>
</table>
### pH Buffer @ 20°C - Bag in Box

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 1.675 ± 0.01 @20°C</td>
<td>BPH97</td>
</tr>
<tr>
<td>pH 4.00 ± 0.01 @20°C</td>
<td>BPH43</td>
</tr>
<tr>
<td>pH 4.66 ± 0.01 @20°C</td>
<td>BPH113</td>
</tr>
<tr>
<td>pH 5.00 ± 0.01 @20°C</td>
<td>BPH105</td>
</tr>
<tr>
<td>pH 6.881 ± 0.01 @20°C</td>
<td>BPH99</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @20°C</td>
<td>BPH22</td>
</tr>
<tr>
<td>pH 8.00 ± 0.01 @20°C</td>
<td>BPH48</td>
</tr>
<tr>
<td>pH 9.00 ± 0.01 @20°C</td>
<td>BPH32</td>
</tr>
<tr>
<td>pH 9.225 ± 0.01 @20°C</td>
<td>BPH100</td>
</tr>
<tr>
<td>pH 10.00 ± 0.01 @20°C</td>
<td>BPH44</td>
</tr>
<tr>
<td>pH 11.00 ± 0.05 @20°C</td>
<td>BPH63</td>
</tr>
</tbody>
</table>

### pH Buffer @ 25°C - Bag in Box

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 1.00 ± 0.02 @25°C</td>
<td>BPH27</td>
</tr>
<tr>
<td>pH 1.679 ± 0.01 @25°C</td>
<td>BPH90</td>
</tr>
<tr>
<td>pH 2.00 ± 0.02 @25°C</td>
<td>BPH13</td>
</tr>
<tr>
<td>pH 3.776 @25°C</td>
<td>BPH91</td>
</tr>
<tr>
<td>pH 4.00 ± 0.01 @25°C</td>
<td>BPH21</td>
</tr>
</tbody>
</table>

### Sterile Buffers

pH Buffer Solutions sterilised by gamma irradiation.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.00 ± 0.01 @20°C (Sterile)</td>
<td>104005S</td>
</tr>
<tr>
<td>pH 6.00 ± 0.01 @20°C (Sterile)</td>
<td>106005S</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01 @20°C (Sterile)</td>
<td>107005S</td>
</tr>
<tr>
<td>pH 8.00 ± 0.01 @20°C (Sterile)</td>
<td>108005S</td>
</tr>
</tbody>
</table>

### pH Buffers @ 38°

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 1L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.00 ± 0.01 @38°C</td>
<td>104038</td>
</tr>
<tr>
<td>pH 6.00 ± 0.01@38°C</td>
<td>106038</td>
</tr>
<tr>
<td>pH 7.00 ± 0.01@38°C</td>
<td>107038</td>
</tr>
<tr>
<td>pH 8.00 ± 0.01 @ 38°C</td>
<td>108038</td>
</tr>
</tbody>
</table>
pH Buffer Capsules

The presentation of pH buffers in capsule format is an innovative concept developed by Reagecon. Tested at 25°C, NIST Traceable. These capsules offer the following advantages:

- Colour coded for ease of identification
- Easy to use
- Dissolve quickly
- Accuracy ±0.02 pH units
- Preservative free
- Economical
- Easy to store and transport
- Extended shelf life

To use: Empty contents of one capsule into 100ml of distilled water.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No.</th>
<th>Pack of 50 Capsules</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH Buffer Capsules pH 4.01 ± 0.02 @25°C (Red)</td>
<td>CP1040</td>
<td></td>
</tr>
<tr>
<td>pH Buffer Capsules pH 7.00 ± 0.02 @25°C (Green)</td>
<td>CP1070</td>
<td></td>
</tr>
<tr>
<td>pH Buffer Capsules pH 9.00 ± 0.02 @25°C (Purple)</td>
<td>CP1090</td>
<td></td>
</tr>
<tr>
<td>pH Buffer Capsules pH 10.00 ± 0.02 @25°C (Blue)</td>
<td>CP1100</td>
<td></td>
</tr>
<tr>
<td>pH Buffer Capsule Kit (10 x pH 4.01, 20 x pH 7.00, 10 x pH 9.00, 10 x pH 10.00 @25°C)</td>
<td>CPMX47910</td>
<td></td>
</tr>
<tr>
<td>pH Buffer Capsule Kit (10 x pH 4.01, 20 x pH 7.00, 10 x pH 9.00 &amp; 10 x pH 10.00)</td>
<td>CPMX</td>
<td></td>
</tr>
<tr>
<td>pH Buffer Capsule Kit (10 x pH 4, 10x pH 7, 3x pH 10 &amp; 1 Universal Indicator)</td>
<td>CPMX4710-UNI</td>
<td></td>
</tr>
<tr>
<td>pH Buffer Capsule Kit (20 x pH 4.01, 20 x pH 7.00, 10 x pH 9.00 )</td>
<td>CPMX479</td>
<td></td>
</tr>
</tbody>
</table>

**RECAL - Single use Calibration Buffers (Colour Coded)**

RECAL is a range of pH Buffers in a wide mouth disposable container which can be used for direct calibration of the electrode and then discarded after use. RECAL offers the following advantages:

- Tested and Certified by Reagecon’s ISO 17025 Accredited Test Method.
- Convenience - saves time, more efficient calibration, avoids waste and spillage.
- Mobility - These are easy to store and transport, allowing calibration in the field or directly in the plant.
- Economical - No waste buffer, beaker not required.
- Accuracy - the possibility of contamination is eliminated giving increased confidence in the results.
- Traceability - Each container is labelled with lot number and expiry date and buffers are directly traceable to N.I.S.T. Standards.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 6 x 90ml @ 20°C</th>
<th>Product No. 6 x 90ml @ 25°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 4.00 (Red) ± 0.01</td>
<td>04C60</td>
<td>04C65</td>
</tr>
<tr>
<td>pH 7.00 (Yellow) ± 0.01</td>
<td>07C60</td>
<td>07C65</td>
</tr>
<tr>
<td>pH 9.00 (Clear) ± 0.01</td>
<td>09C60</td>
<td>09C65</td>
</tr>
<tr>
<td>pH 10.00 (Blue) ± 0.01</td>
<td>10C60</td>
<td>10C65</td>
</tr>
<tr>
<td>Recal mixed pack of 2xPH 4, 7 &amp; 10 ± 0.01</td>
<td>MXC60</td>
<td>MXC65</td>
</tr>
<tr>
<td>Recal mixed pack of 2xPH 4, 7 &amp; 9 ± 0.01</td>
<td>MX09C60</td>
<td>MX09C65</td>
</tr>
</tbody>
</table>

Additional pack sizes available on request
Introduction

pH is one of the most frequently and universally made measurements in science. Despite the number of people involved in pH measurement, the practical fundamentals governing it are not widely understood. The literature sometimes offers conflicting advice on how it is best measured and there is often uncertainty about the correct option available to deal with individual measurement applications. What is often not fully appreciated is that the vast majority of pH problems are related to the correct selection, care or maintenance of the electrode with particular emphasis on the reference electrode.

This brief technical note deals specifically with the correct choice of reference electrode filling solution and the compatibility of the filling solution with the sample being measured. It is important to keep two key considerations in mind as part of the selection process of the electrode filling solution. Firstly, the issue of the compatibility between the filling solution and the sample relates not only to direct pH measurement but also direct Ion and Redox measurement. It is also relevant to the use of all three sensors when performing potentiometric titrations. Secondly, the direct experience of the analyst, the operating instructions of the electrode or the detail contained within the test method being followed, may be of most value in the selection of the correct filling solution.

Correct choice of Electrode Filling Solution (Electrolyte)

A good electrolyte must fulfil a number of conditions. The equitransference of the cation/anion combination should be as close as possible to being equimobile, have constant chloride activity, be of high electrical conductance and as non-chemically reactive as possible.

Concentrated or saturated Potassium Chloride (KCl) fulfils all of these conditions to a greater or lesser extent and is the filling solution of choice in either potentiometric titrations or direct pH, redox or ion measurements where silver/silver chloride or calomel reference electrodes are used.

However, saturated KCl is only sparingly soluble below 20°C, so if the measurements are carried out below this temperature weaker concentrations of this salt needs to be used. By way of example, 3.5M KCl remains in solution down to 15°C and 2M KCl will remain in solution down to -5°C. However, the lower the concentration of KCl the higher the liquid junction potential error that will arise in the measurement. For work at very low temperatures, 1.5M KCl dissolved in equal volumes of water and glycerin can be used. (KCl does not crystalize out of solution in this mixture until the temperature reaches -30°C). This mixture will introduce even greater liquid junction errors.

The use of KCl in any concentration may be problematic in the following situations:

1. The following ions can react with Cl⁻ to form insoluble precipitates that block the diaphragm, Hg²⁺, Cu²⁺, Ag⁺, Pb⁺⁺. In such cases, a double junction electrode must be used with the outer chamber containing either Potassium Nitrate or Ammonium Sulphate at various concentrations. However, the potassium may also react with anions like Perchlorate (ClO₄⁻) to form Potassium Perchlorate (KClO₄) which is sparingly soluble. In this situation Ammonium Sulfate can also be used as the filling solution in the outer chamber.

2. Some electrode manufacturers recommend the use of 3M KCl or 4M KCl saturated with Silver Chloride (AgCl) as the filling solution of choice. In this instance silver may react with several halides including bromides or iodides or may react with cyanides. Most importantly, silver may also react with sulfide which manifests itself in blackening of the diaphragm due to blockage. There may also be ingress of the sulfide into the electrode which will cause poisoning of the reference system, as well as high false liquid junction potentials. In this instance, silver free KCl can be used either as a primary electrolyte or in the outer junction of a double junction electrode.
3. 2M Potassium Nitrate (KNO₃) + 0.001M Potassium Chloride may be used specifically for measurement of samples containing silver halides or used for argentimetric titrations where silver billet electrodes are used.

4. For pH measurement or titration in non-aqueous media or organic solvents, Lithium Chloride in Ethanol, Methanol, Isopropanol or Glacial Acetic Acid must be used as a filling solution in both the inner and outer chamber.

These hints are for guidance purposes and will help in the majority of applications. However, such hints can never be exhaustive or sufficiently comprehensive to cover all types of samples encountered.

**Electrode Filling Solutions**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFS300S</td>
<td>3M Potassium Chloride (KCl), free from Silver ion</td>
<td>50ml</td>
</tr>
<tr>
<td>EFS3</td>
<td>3M Potassium Chloride (KCl), free from Silver ion</td>
<td>100ml</td>
</tr>
<tr>
<td>EFS3-250ML</td>
<td>3M Potassium Chloride (KCl), free from Silver ion</td>
<td>250ml</td>
</tr>
<tr>
<td>EFS35</td>
<td>3M Potassium Chloride (KCl), free from Silver ion</td>
<td>500ml</td>
</tr>
<tr>
<td>EFS301</td>
<td>3M Potassium Chloride (KCl), free from Silver ion</td>
<td>1L</td>
</tr>
<tr>
<td>EFS351</td>
<td>3.5M Potassium Chloride (KCl) free from Silver ion</td>
<td>100ml</td>
</tr>
<tr>
<td>EFS3511</td>
<td>3.5M Potassium Chloride (KCl) free from Silver ion</td>
<td>1L</td>
</tr>
<tr>
<td>EFS35AC</td>
<td>3.5M Potassium Chloride (KCl), saturated with AgCl</td>
<td>100ml</td>
</tr>
<tr>
<td>EFS35AC5</td>
<td>3.5M Potassium Chloride (KCl), saturated with AgCl</td>
<td>500ml</td>
</tr>
<tr>
<td>EFS381</td>
<td>3.8M Potassium Chloride (KCl), free from Silver ion</td>
<td>100ml</td>
</tr>
<tr>
<td>EFS3810</td>
<td>3.8M Potassium Chloride (KCl) free from Silver ion</td>
<td>1L</td>
</tr>
<tr>
<td>EFS4</td>
<td>4M Potassium Chloride (KCl), free from Silver ion</td>
<td>100ml</td>
</tr>
<tr>
<td>LKCL1</td>
<td>Saturated Potassium (KCl), free from Silver ion</td>
<td>100ml</td>
</tr>
<tr>
<td>LKCL</td>
<td>Saturated Potassium (KCl), free from Silver ion</td>
<td>1L</td>
</tr>
<tr>
<td>EFS3AC</td>
<td>3M Potassium Chloride (KCl), saturated with AgCl</td>
<td>100ml</td>
</tr>
<tr>
<td>EFS3AC-250ML</td>
<td>3M Potassium Chloride (KCl), saturated with AgCl</td>
<td>250ml</td>
</tr>
<tr>
<td>EFS3ACS</td>
<td>3M Potassium Chloride (KCl), saturated with AgCl</td>
<td>500ml</td>
</tr>
<tr>
<td>EFS4AC</td>
<td>4M Potassium Chloride (KCl), saturated with AgCl</td>
<td>100ml</td>
</tr>
<tr>
<td>EFS5</td>
<td>Saturated Potassium Sulphate K₂SO₄</td>
<td>100ml</td>
</tr>
<tr>
<td>EFS2AS</td>
<td>Double Junction Bridge Solution 2M Ammonium Sulphate (NH₄)₂SO₄</td>
<td>100ml</td>
</tr>
<tr>
<td>EFS2-250ML</td>
<td>Double Junction Bridge Solution 2M Ammonium Sulphate (NH₄)₂SO₄</td>
<td>250ml</td>
</tr>
<tr>
<td>EFSAMO1</td>
<td>Ammonia</td>
<td>100ml</td>
</tr>
<tr>
<td>EFS01AS</td>
<td>Double Junction Bridge Solution 0.1M Ammonium Sulphate</td>
<td>100ml</td>
</tr>
<tr>
<td>EFSKNO</td>
<td>Double Junction Bridge Solution 10% w/v Potassium Nitrate</td>
<td>100ml</td>
</tr>
<tr>
<td>EFSILICL</td>
<td>Non-Aqueous Filling Solution; 1M Lithium Chloride (LiCl), dissolved in isopropanol</td>
<td>100ml</td>
</tr>
<tr>
<td>EFSILIET</td>
<td>Non-Aqueous Filling Solution; 1M Lithium Chloride (LiCl), dissolved in ethanol</td>
<td>100ml</td>
</tr>
<tr>
<td>EFSILIGA</td>
<td>Non-Aqueous Filling Solution; 1M Lithium Chloride (LiCl), dissolved in glacial acetic acid</td>
<td>100ml</td>
</tr>
<tr>
<td>EFSDO</td>
<td>Dissolved Oxygen Electrolyte</td>
<td>100ml</td>
</tr>
<tr>
<td>EFSIUAPP</td>
<td>Low Ionic Strength Applications</td>
<td>100ml</td>
</tr>
<tr>
<td>EFSNACLO4</td>
<td>Saturated Sodium Perchlorate in Glacial Acetic Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>EFSBRS5</td>
<td>Preparation Cell Electrolyte for ASTM D1492 (Bromine)</td>
<td>5L</td>
</tr>
</tbody>
</table>
### Electrode Cleaning Solutions

Designed to extend the useful life of your PH electrode.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS1</td>
<td>(Pepsin/Hydrochloric Acid) for removal of proteins</td>
<td>100ml</td>
</tr>
<tr>
<td>ECS-250ML</td>
<td>(Pepsin/Hydrochloric Acid) for removal of proteins</td>
<td>250ml</td>
</tr>
<tr>
<td>ECS</td>
<td>(Pepsin/Hydrochloric Acid) for removal of proteins</td>
<td>500ml</td>
</tr>
<tr>
<td>ECSF</td>
<td>(Pepsin/Hydrochloric Acid) for removal of proteins</td>
<td>1L</td>
</tr>
<tr>
<td>IECS</td>
<td>Inorganic (Thiourea/Hydrochloric Acid); for removal of sulphide</td>
<td>100ml</td>
</tr>
<tr>
<td>IECSS</td>
<td>Inorganic (Thiourea/Hydrochloric Acid); for removal of sulphide</td>
<td>500ml</td>
</tr>
<tr>
<td>IECS1</td>
<td>Inorganic (Thiourea/Hydrochloric Acid); for removal of sulphide</td>
<td>1L</td>
</tr>
<tr>
<td>OIECS1</td>
<td>Organic Cleaning Solutions</td>
<td>100ml</td>
</tr>
<tr>
<td>OECS</td>
<td>Organic Cleaning Solutions</td>
<td>500ml</td>
</tr>
<tr>
<td>OIECSS</td>
<td>Organic Cleaning Solutions</td>
<td>5L</td>
</tr>
<tr>
<td>ERS</td>
<td>Electrode Regeneration Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>ECHPS</td>
<td>Rinse Solution, High Purity Water for Rinsing Electrodes</td>
<td>500ml</td>
</tr>
<tr>
<td>ERSSS</td>
<td>Electrode Rinse Solution</td>
<td>500ml</td>
</tr>
</tbody>
</table>

### Electrode Storage Solutions

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESS001</td>
<td>pH Electrode Storage Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>ESS5</td>
<td>pH Electrode Storage Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>ESS01</td>
<td>pH Electrode Storage Solution</td>
<td>1L</td>
</tr>
<tr>
<td>ESS05</td>
<td>pH Electrode Storage Solution</td>
<td>5L</td>
</tr>
</tbody>
</table>

### Electrode Care & Maintenance Kit

This is a unique Kit designed to help calibrate, clean and extend the useful life of your pH electrodes.

**Contents include:**

- pH buffers in twin neck bottles - 1 x 500ml each of pH 4.00/7.00/10.00 @ 20°C
- Electrode Storage Solution - 1 x 500ml
- Electrode Cleaning Solution - 1 x 100ml each of Biological, Organic and Inorganic Solutions
- Filling Solution 1 x 100ml each of 3M KCl/AgCl and 4M KCl
- Pipettes (2)
- Regeneration Solution - 1 x 100ml
- Instruction card and GLP Log Book

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCMK1</td>
<td>REAGECARE pH Electrode Care &amp; Maintenance Kit</td>
<td>Kit</td>
</tr>
</tbody>
</table>
Redox Standards

During its working life a Redox electrode undergoes no change of zero point or slope. Redox is an absolute measurement expressed in millivolts (unlike pH, which is an artificial logarithmic scale using values of 1 - 14). Therefore, redox electrodes do not require calibration and the standards act as control materials rather than calibration standards. Such control standards not only control the functionality of the sensing and reference electrode, but also control the analyst’s technique, environmental conditions and the operation of the measurement meter (pH meter in millivolt mode).

If the measurement of the control material is outside the expected values, it may be due to any or several of the following reasons:

- Poor connections or a short circuit within the electrodes or between the electrodes and meter.
- Incompatibility between the reference electrode and sample, in particular the use of incorrect electrolyte.
- Contamination or poisoning of reference system or reference electrolyte.
- Blocked or contaminated diaphragm.
- Incorrect choice of sensing electrode.

In choosing an electrode, broadly, but not exclusively the analyst can chose between platinum or gold and chose several different options as to how the platinum or gold is configured on the electrode.

Although, platinum is more commonly used, it may give erroneous results in low ionic strength solutions or, when its surface is passivated or roughened. It may also show poor results in strongly oxidizing solutions. On the other hand gold is totally unsuitable in the presence of or due to the formation of gold cyanide or gold halide complexes in the sample. Although substantial guidance is offered in the literature on which metal to use, the specific experience of the user, is the most important determinant of the final choice.

Redox Standards

All values quoted are potentials of Platinum Electrode v Ag/AgCl reference (3M KCl)

<table>
<thead>
<tr>
<th>Value</th>
<th>Product No. 500ml</th>
<th>Product No. 10L</th>
<th>Product No. 10L Bag In Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>124mV @25°C</td>
<td>RS124</td>
<td>RS12410</td>
<td>RSB12410</td>
</tr>
<tr>
<td>200mV @25°C</td>
<td>RS200</td>
<td>RS20010</td>
<td>RSB20010</td>
</tr>
<tr>
<td>220mV @25°C</td>
<td>RS220</td>
<td>RS22010</td>
<td>RSB22010</td>
</tr>
<tr>
<td>250mV @25°C</td>
<td>RS250</td>
<td>RS25010</td>
<td>RSB25010</td>
</tr>
<tr>
<td>300mV @25°C</td>
<td>RS300</td>
<td>RS30010</td>
<td>RSB30010</td>
</tr>
<tr>
<td>358mV @25°C</td>
<td>RS358</td>
<td>RS35810</td>
<td>RSB35810</td>
</tr>
<tr>
<td>400mV @25°C</td>
<td>RS400</td>
<td>RS40010</td>
<td>RSB40010</td>
</tr>
<tr>
<td>440mV @25°C</td>
<td>RS440</td>
<td>RS44010</td>
<td>RSB44010</td>
</tr>
<tr>
<td>465mV @25°C</td>
<td>RS465</td>
<td>RS46510</td>
<td>RSB46510</td>
</tr>
<tr>
<td>468mV @25°C</td>
<td>RS468</td>
<td>RS46810</td>
<td>RSB46810</td>
</tr>
<tr>
<td>475mV @25°C</td>
<td>RS475</td>
<td>RS47510</td>
<td>RSB47510</td>
</tr>
<tr>
<td>600mV @25°C</td>
<td>RS600</td>
<td>RS60010</td>
<td>RSB60010</td>
</tr>
<tr>
<td>650mV @25°C</td>
<td>RS650</td>
<td>RS65010</td>
<td>RSB65010</td>
</tr>
</tbody>
</table>
Reagecon’s turbidity standards for ratio and non-ratio instruments are composed of suspended polymer microspheres. These turbidity standards remove the handling, stability and accuracy problems associated with traditional Formazin turbidity standards; (for detailed comparison, see Table 1).

Turbidity Measurement
Accurate and precise laboratory or online analytical measurement can be influenced by the following 6 key parameters:

- Measuring Instrument
- Measuring Accessories
- The Sample
- Standards and Reference Material
- The Operator
- Measuring Environment

The technical validation, comparability, quality control/assurance, proficiency testing and traceability of any analysis require significant attention to detail of all these parameters. Turbidity measurement is no different in this respect.

The Standard / Reference Material
The nephelometric turbidity meter is designed to be routinely standardised with a known light scattering standard. As with all analytical standards or reference materials, a turbidity standard should fulfil the following criteria:

- Provide traceability.
- Demonstrate the accuracy of results.
- Calibrate the equipment and methodology.
- Monitor the user performance.
- Validate the test.
- Facilitate comparability i.e. to ensure that when the correct procedures have been followed the same analysis of the same materials will produce results that agree with each other whenever they are performed.

Standards and Reference materials should be produced and characterised in a technically competent manner, should be homogenous, stable, certified and have available a known uncertainty of measurement. Presently, there are only two types of standards recognised and approved by the USEPA, Standard Methods, ASTM and other regulatory agencies, these are formazin or formazin derived standards and suspended polymer microspheres.
Table 1: Comparison of Reagecon Polymer Microsphere & Formazin Turbidity Standards

<table>
<thead>
<tr>
<th>Feature</th>
<th>Reagecon Polymer Microspheres</th>
<th>Formazin</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong></td>
<td>Non-toxic. No special handling or disposal requirements</td>
<td>Very toxic, contains a known carcinogen. Requires special handling and disposal</td>
</tr>
<tr>
<td><strong>Particle shape &amp; size</strong></td>
<td>Well defined spherical shape. Mean diameter is 0.06µm with a distribution between 0.01 and 0.2µm.</td>
<td>Irregular shape and distribution. Mean diameter is 3µm with a distribution between 1 and 20µm.</td>
</tr>
<tr>
<td><strong>Shelf life</strong></td>
<td>Does not deteriorate or settle out. A long stable shelf life at all concentrations.</td>
<td>Flocculates and deteriorates. Lower concentrations change value within days, or hours, after preparation.</td>
</tr>
<tr>
<td><strong>Particle suspension</strong></td>
<td>Particles stay in suspension. Mixing is discouraged as it entrains air.</td>
<td>Particles settle quickly, suspension must be continuously mixed. Mixing induces shearing.</td>
</tr>
<tr>
<td><strong>Traceability</strong></td>
<td>Certified traceable to NIST Reference Material 1690</td>
<td>Non traceable</td>
</tr>
<tr>
<td><strong>Precision (batch to batch)</strong></td>
<td>Mean of SD’s 0±0.00</td>
<td>Mean of SD’s 0.9±0.2</td>
</tr>
<tr>
<td><strong>Inter-instrument reproducibility</strong></td>
<td>0.5±0.0</td>
<td>0.8±0.2</td>
</tr>
<tr>
<td><strong>Stability</strong></td>
<td>0.1 – 4000 NTU (1 year)</td>
<td>4000 NTU (3 months). Need for dilutions to be prepared daily or weekly.</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>Highly accurate for Reagecon Polymer Microspheres</td>
<td>±10% (4000 NTUs) up to ±30% for dilute working standards.</td>
</tr>
<tr>
<td>Description</td>
<td>Product No. Ratio 100 ml</td>
<td>Product No. Ratio 500 ml</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Turbidity Std 0.0 NTU</td>
<td>CRSR-0-100</td>
<td>CRSR-0-500</td>
</tr>
<tr>
<td>Turbidity Std 0.1 NTU</td>
<td>CRSR-0.1-100</td>
<td>CRSR-0.1-500</td>
</tr>
<tr>
<td>Turbidity Std 0.2 NTU</td>
<td>CRSR-0.2-100</td>
<td>CRSR-0.2-500</td>
</tr>
<tr>
<td>Turbidity Std 0.4 NTU</td>
<td>CRSR-0.4-100</td>
<td>CRSR-0.4-500</td>
</tr>
<tr>
<td>Turbidity Std 0.5 NTU</td>
<td>CRSR-0.5-100</td>
<td>CRSR-0.5-500</td>
</tr>
<tr>
<td>Turbidity Std 1 NTU</td>
<td>CRSR-1-100</td>
<td>CRSR-1-500</td>
</tr>
<tr>
<td>Turbidity Std 1.8 NTU</td>
<td>CRSR-1.8-100</td>
<td>CRSR-1.8-500</td>
</tr>
<tr>
<td>Turbidity Std 2 NTU</td>
<td>CRSR-2-100</td>
<td>CRSR-2-500</td>
</tr>
<tr>
<td>Turbidity Std 4 NTU</td>
<td>CRSR-4-100</td>
<td>CRSR-4-500</td>
</tr>
<tr>
<td>Turbidity Std 5 NTU</td>
<td>CRSR-5-100</td>
<td>CRSR-5-500</td>
</tr>
<tr>
<td>Turbidity Std 10 NTU</td>
<td>CRSR-10-100</td>
<td>CRSR-10-500</td>
</tr>
<tr>
<td>Turbidity Std 20 NTU</td>
<td>CRSR-20-100</td>
<td>CRSR-20-500</td>
</tr>
<tr>
<td>Turbidity Std 40 NTU</td>
<td>CRSR-40-100</td>
<td>CRSR-40-500</td>
</tr>
<tr>
<td>Turbidity Std 50 NTU</td>
<td>CRSR-50-100</td>
<td>CRSR-50-500</td>
</tr>
<tr>
<td>Turbidity Std 60 NTU</td>
<td>CRSR-60-100</td>
<td>CRSR-60-500</td>
</tr>
<tr>
<td>Turbidity Std 90 NTU</td>
<td>CRSR-90-100</td>
<td>CRSR-90-500</td>
</tr>
<tr>
<td>Turbidity Std 100 NTU</td>
<td>CRSR-100-100</td>
<td>CRSR-100-500</td>
</tr>
<tr>
<td>Turbidity Std 150 NTU</td>
<td>CRSR-15-100</td>
<td>CRSR-15-500</td>
</tr>
<tr>
<td>Turbidity Std 200 NTU</td>
<td>CRSR-200-100</td>
<td>CRSR-200-500</td>
</tr>
<tr>
<td>Turbidity Std 400 NTU</td>
<td>CRSR-400-100</td>
<td>CRSR-400-500</td>
</tr>
<tr>
<td>Turbidity Std 500 NTU</td>
<td>CRSR-500-100</td>
<td>CRSR-500-500</td>
</tr>
<tr>
<td>Turbidity Std 800 NTU</td>
<td>CRSR-800-100</td>
<td>CRSR-800-500</td>
</tr>
<tr>
<td>Turbidity Std 1000 NTU</td>
<td>CRSR-1000-100</td>
<td>CRSR-1000-500</td>
</tr>
<tr>
<td>Turbidity Std 4000 NTU</td>
<td>CRSR-4000-100</td>
<td>CRSR-4000-500</td>
</tr>
</tbody>
</table>
Chemical Oxygen Demand (COD) Standards

Reagecon’s offering includes a comprehensive range of COD Standards. These standards are ideal for use as Control Standards to verify that correct analysis for COD has taken place. Achieving an acceptable result for the Control Standard will improve confidence in sample readings for this important environmental parameter.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>COD10</td>
<td>COD Calibration Standard 10ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD20</td>
<td>COD Calibration Standard 20ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD50</td>
<td>COD Calibration Standard 50ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD100</td>
<td>COD Calibration Standard 100ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD200</td>
<td>COD Calibration Standard 200ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD500</td>
<td>COD Calibration Standard 500ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD600</td>
<td>COD Calibration Standard 600ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD1000</td>
<td>COD Calibration Standard 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD1300</td>
<td>COD Calibration Standard 1300ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD1500</td>
<td>COD Calibration Standard 1500ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD2000</td>
<td>COD Calibration Standard 2000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD3000</td>
<td>COD Calibration Standard 3000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD5000</td>
<td>COD Calibration Standard 5000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD6000</td>
<td>COD Calibration Standard 6000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD10M</td>
<td>COD Calibration Standard 10000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD20M</td>
<td>COD Calibration Standard 20000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>COD30K</td>
<td>COD Calibration Standard 30000ppm</td>
<td>1L</td>
</tr>
<tr>
<td>COD60M5</td>
<td>COD Calibration Standard 60000ppm</td>
<td>500ml</td>
</tr>
</tbody>
</table>
Chemical Oxygen Demand (COD) Reagents

Reagecon’s product offering includes reagents for the two accepted methods for measuring COD at concentrations less than 400mg/l. Where the concentration is greater than 400mg/l, the sample must be diluted.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WTR50W</td>
<td>Chemical Oxygen Demand COD Reagent (1977 method)</td>
<td>2.5L</td>
</tr>
<tr>
<td>CODMS</td>
<td>Chemical Oxygen Demand COD 20% w/v Mercury (II) Sulphate in 10% w/v Sulphuric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>KCZ002F</td>
<td>Chemical Oxygen Demand COD Potassium Dichromate 0.0208M (0.125N) Solution</td>
<td>1L</td>
</tr>
<tr>
<td>AGN01001</td>
<td>Chemical Oxygen Demand COD Reagent Silver Nitrate 1000g/L</td>
<td>100ml</td>
</tr>
<tr>
<td>AGS1W</td>
<td>Chemical Oxygen Demand COD 1% w/v Silver Sulphate in Sulphuric Acid Solution</td>
<td>2.5L</td>
</tr>
<tr>
<td>AGS1H</td>
<td>Chemical Oxygen Demand COD 1% w/v Silver Sulphate in Sulphuric Acid Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>PFS1</td>
<td>Indicator Solution Ferroin Indicator</td>
<td>100ml</td>
</tr>
</tbody>
</table>


Chemical Oxygen Demand (COD) Vials

Reagecon’s COD Reagent Vials can be used in conjunction with the Aqualytic PC Spectro, PC Compact Vario and all Hach® spectrophotometers. This compatibility is proven in the Reagecon Technical Publication. Reagecon also offer a collection and disposal service in certain territories for used vials that complies with all relevant dangerous goods disposal and environmental regulations.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>420720</td>
<td>Measuring Range 0-150mg/L</td>
<td>pk25</td>
</tr>
<tr>
<td>420720R</td>
<td>Measuring Range 0-150mg/L with compliant disposal</td>
<td>pk25</td>
</tr>
<tr>
<td>420721</td>
<td>Measuring Range 0-1500mg/L</td>
<td>pk25</td>
</tr>
<tr>
<td>420721R</td>
<td>Measuring Range 0-1500mg/L with compliant disposal</td>
<td>pk25</td>
</tr>
<tr>
<td>420722</td>
<td>Measuring Range 0-15000mg/L</td>
<td>pk25</td>
</tr>
<tr>
<td>420722R</td>
<td>Measuring Range 0-15000mg/L with compliant disposal</td>
<td>pk25</td>
</tr>
</tbody>
</table>

Introduction

Ion Selective Electrodes (ISEs) allow specific and quantitative measurement of a wide range of cations, anions and some dissolved gases. These ions can be measured directly like pH measurement, indirectly (see below) or by titrimetry. ISEs respond selectively to the relevant ion activity exactly like pH electrodes respond to hydrogen ion activity. Like pH electrodes, they require a suitable reference electrode, preferably a double junction system. They also require a pH or ion meter and a selection of filling solutions for the outer and inner chambers of the reference electrode. In some instances the reference and sensing electrodes may be combined into one unit.

Types of Measurement

Direct measurement is performed exactly like the measurement of pH. The electrode is calibrated using two concentrations of the relevant standard which are chosen to bracket the expected value of the sample. More than two calibration standards may be used for better linearity or more accurate measurement and a standard curve of mV reading versus concentration of various standards can be constructed.

However, the measurement technique deviates from pH in that both sample and standards require the addition of an Ionic Strength Adjustor (ISA). The addition of this solution confers the following benefits:

- The ionic strength of the adjustor is much higher than the ionic strength of the sample or standard so it keeps the ionic strength of both high, constant and similar and thus enables what is effectively activity measurement to be read as concentration.
- The ionic strength adjustor (which should never react with the sample or standard chemically) also keeps the pH value constant in some instances. This combined with high ionic strength and the chemistry of the ISA suppresses or eliminates interfering ions.
- The ISA when added to sample and standard eliminates any matrix, hysteresis or erroneous liquid junction potentials that might affect the accuracy of the test result.
- Indirect measurement methodologies include the use of standard addition, sample addition, standard subtraction and sample subtraction. Such methods offer advantages that include:
  - Calibration need only be performed occasionally or not at all, therefore only ISA needs to be added to the sample.
  - The possibility of error due to a temperature co-efficient of variation between the sample and standard is largely eliminated.
  - The ion concentration of solid samples can be measured.
  - The range of types of ions measured and the versatility of the technique is greatly enhanced by careful and considered selection of the optimal indirect method. This is true, in particular, with standard or sample subtraction, where precipitation or complexation may be performed, or where the counter ion to that contained in the standard is measured.

Use of Controls

As with all analytical measurements, no test should be performed without the use of control material. The control should be treated in exactly the same way as the sample including the addition of ISA, thereby picking up any error in the measurement technique, whether it be due to the analyst, environment, meter, sensors or sample in line with the execution of good laboratory produce. Reagecons ISE standards, diluted to a suitable concentration, are particularly suitable for use as control material.
ISE Standards & ISA Solutions

Reagecon is world leader in the development, manufacture, testing and stabilising of chemical and physical standards and reagents. Our ISE standards and ISA’s are an important part of our offering. The range of standards is extensive, accurate, traceable and produced to have minimal uncertainty of measurement. They can be used for:

- Calibration
- Instrument Qualification
- Control
- Method Validation

Both ISE standards or ISA reagents can be customised for individual customer requirements and can be supplied in bulk quantities for process or online applications.

Ion Selective Electrode Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISEF10005</td>
<td>Fluoride 100ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEF1005</td>
<td>Fluoride 10ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISENH55</td>
<td>Ammonia 1000ppm as N</td>
<td>5L</td>
</tr>
<tr>
<td>ISENH1005</td>
<td>Ammonia 100ppm as N</td>
<td>500ml</td>
</tr>
<tr>
<td>ISENH1005-5L</td>
<td>Ammonia 100ppm as N</td>
<td>5L</td>
</tr>
<tr>
<td>NH-0.5-P-500</td>
<td>Ammonia Standard 0.5ppm as NH₃</td>
<td>500ml</td>
</tr>
<tr>
<td>NH2-5-P-500</td>
<td>Ammonia Standard 2.5 ppm as NH₃</td>
<td>500ml</td>
</tr>
<tr>
<td>NH3101</td>
<td>Ammonia Standard 1mg/l as as NH₃</td>
<td>100ml</td>
</tr>
<tr>
<td>ISEF101</td>
<td>Fluoride 10ppm</td>
<td>1L</td>
</tr>
<tr>
<td>ISEF11</td>
<td>Fluoride 1ppm</td>
<td>1L</td>
</tr>
<tr>
<td>ISENH4105</td>
<td>Ammonium 10ppm as NH₄</td>
<td>500ml</td>
</tr>
<tr>
<td>ISENH41005</td>
<td>Ammonium 100ppm as NH₄</td>
<td>500ml</td>
</tr>
<tr>
<td>ISENH45</td>
<td>Ammonium 1000ppm as NH₄</td>
<td>500ml</td>
</tr>
<tr>
<td>ISENH500</td>
<td>Ammonia 500ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISENH5</td>
<td>Ammonia 1000ppm as N</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEBA5</td>
<td>Barium 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEBR5</td>
<td>Bromide 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECD5</td>
<td>Cadmium 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECA10</td>
<td>Calcium 10ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECA1005</td>
<td>Calcium 100ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECA5</td>
<td>Calcium 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEC05</td>
<td>Carbon Dioxide 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECl10005</td>
<td>Chloride 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECL5</td>
<td>Chloride 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECU5</td>
<td>Copper 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECN025</td>
<td>Cyanide 1000ppm</td>
<td>250ml</td>
</tr>
<tr>
<td>ISECNS</td>
<td>Cyanide 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEF1</td>
<td>Fluoride 1ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEF5</td>
<td>Fluoride 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEI5</td>
<td>Iodide 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEPB5</td>
<td>Lead 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEMG5</td>
<td>Magnesium 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEHG5</td>
<td>Mercury 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEN105</td>
<td>Nitrate 10ppm as NO₃</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEN105-5L</td>
<td>Nitrate 10ppm as NO₃</td>
<td>5L</td>
</tr>
<tr>
<td>ISEN1005</td>
<td>Nitrate 100ppm as NO₃</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEN1005-5L</td>
<td>Nitrate 100ppm as NO₃</td>
<td>5L</td>
</tr>
</tbody>
</table>
### Ionic Strength Adjuster Solutions

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISENO5</td>
<td>Nitrogen Oxide 1000ppm as NO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEPCL5</td>
<td>Perchlorate 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEK5</td>
<td>Potassium 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEAG5</td>
<td>Silver 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEN5-5L</td>
<td>Nitrate 1000ppm as NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>5L</td>
</tr>
<tr>
<td>NITRATE025PPM</td>
<td>Nitrate Standard 25ppm as N</td>
<td>1L</td>
</tr>
<tr>
<td>NITRITE025PPM</td>
<td>Nitrite Standard 25ppm as N</td>
<td>1L</td>
</tr>
<tr>
<td>NO2-0.3-100</td>
<td>Nitrite Standard in Water 0.3mg/l</td>
<td>100ml</td>
</tr>
<tr>
<td>NO2-6-100</td>
<td>Nitrite Standard in Water 6mg/l</td>
<td>100ml</td>
</tr>
<tr>
<td>NO3-6-100</td>
<td>Nitrate Standard in Water 6mg/l</td>
<td>100ml</td>
</tr>
<tr>
<td>P10001</td>
<td>Phosphate Solution 1000ppm</td>
<td>1L</td>
</tr>
<tr>
<td>P100S</td>
<td>Phosphate Solution 100ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEN5</td>
<td>Nitrate 1000ppm as NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>500ml</td>
</tr>
<tr>
<td>ISAN5</td>
<td>Nitrate 1000ppm as NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>500ml</td>
</tr>
<tr>
<td>ISASS5</td>
<td>Sulphide 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECOS5</td>
<td>Sulphur Dioxide 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISESC5</td>
<td>Thiocyanate 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEWH5</td>
<td>Water Hardness Standard 1000ppm CaCO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEWH5</td>
<td>Water Hardness 4M KCl Solution</td>
<td>500ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISENO5</td>
<td>Nitrate 1000ppm as NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>500ml</td>
</tr>
<tr>
<td>ISENO5-5L</td>
<td>Nitrate 1000ppm as NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>5L</td>
</tr>
<tr>
<td>NITRATE025PPM</td>
<td>Nitrate Standard 25ppm as N</td>
<td>1L</td>
</tr>
<tr>
<td>NITRITE025PPM</td>
<td>Nitrite Standard 25ppm as N</td>
<td>1L</td>
</tr>
<tr>
<td>NO2-0.3-100</td>
<td>Nitrite Standard in Water 0.3mg/l</td>
<td>100ml</td>
</tr>
<tr>
<td>NO2-6-100</td>
<td>Nitrite Standard in Water 6mg/l</td>
<td>100ml</td>
</tr>
<tr>
<td>NO3-6-100</td>
<td>Nitrate Standard in Water 6mg/l</td>
<td>100ml</td>
</tr>
<tr>
<td>P10001</td>
<td>Phosphate Solution 1000ppm</td>
<td>1L</td>
</tr>
<tr>
<td>P100S</td>
<td>Phosphate Solution 100ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEN5</td>
<td>Nitrate 1000ppm as NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>500ml</td>
</tr>
<tr>
<td>ISAN5</td>
<td>Nitrate 1000ppm as NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>500ml</td>
</tr>
<tr>
<td>ISASS5</td>
<td>Sulphide 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISECOS5</td>
<td>Sulphur Dioxide 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISESC5</td>
<td>Thiocyanate 1000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEWH5</td>
<td>Water Hardness Standard 1000ppm CaCO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>500ml</td>
</tr>
<tr>
<td>ISEWH5</td>
<td>Water Hardness 4M KCl Solution</td>
<td>500ml</td>
</tr>
</tbody>
</table>
ICP-MS/ICP-OES Standards

Reagecon have been manufacturing Inorganic Standards, Controls and Calibrators for Spectroscopy for almost two decades. During that time, the company has established itself as the most reliable primary producer of top quality standards. Our customer base in over 80 countries is testament of our efforts to be leaders in a changing field where limits of detection and purity are becoming ever more demanding. Whether your application is ICP-MS, ICP-OES or whether you require a single element or multi-element mixture, our products are manufactured, tested and stabilised to such a high level, that they can be used on all of these instruments.

Quality Control

All metal raw materials are assayed by titration and ICP-MS prior to manufacture. Separate CRM’s are used to control or calibrate the titration and ICP-MS respectively. This dual process enables the assays to be cross-checked against each other, provides two layers of traceability and quantifies the combined level of impurities in the starting material. The product is then manufactured gravimetrically using the mass balance approach: 100% - sum of all impurities (w/w). The assay of the final product is certified using the gravimetric result corrected for density. Prior to bottling, the finished product is again tested and verified using an ICP-MS instrument calibrated with appropriate CRM’s.

Certification

Reagecon’s ICP-MS and ICP-OES Standards are prepared gravimetrically on a weight/weight basis from the purest available raw materials on the market. Both solute and solvent are weighed on balances calibrated by Reagecon’s engineers using OIML traceable weights. Reagecon holds ISO/IEC 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025.

Traceability

The content of the starting material for each single element or multi-element standard is established by titration. The resulting analysis is directly traceable to a relevant NIST standard where available. All of the resulting uncertainties of measurement are calculated according to EURACHEM/CITAC guidelines and reported as expanded uncertainties at the 95% confidence level. Reagecon has ISO/IEC 17025 (INAB Ref:264T) accreditation for several classes of titrimetric analysis relevant to the assay of Raw Materials, for the manufacture of ICP-MS and ICP-OES standards.

Verification of Raw Materials

The concentration of the target element of each raw material is then verified using a high performance state of the art calibrated ICP-MS instrument. The calibration of the ICP-MS is completed using high purity ISO Guide 34 certified reference materials or other internationally accepted materials (e.g. BAM from Germany). This verification procedure serves three distinct but critical purposes.

• It provides a completely independent check of the accuracy and validity of the titration assay.
• It provides traceability by comparison to a second reference, which is independent from the first Reference Material.
• It determines the level of trace elemental impurities in the starting raw materials.
Elemental Metallic Impurities

All Reagecon Standards are manufactured from the purest available raw materials. At least thirty-three starting materials are metals of > 99.999% purity. Several others are at least 99.995% pure. Most of the remaining metals or salts of metals are at least 99.99% pure. The level of impurities are quantified using ICP-MS and are measured and reported both on the starting materials and on the finished product. All of Reagecon’s ICP-MS standards are manufactured in a Class 10,000 (ISO 7) clean room environment.

Final Assay & Result

Each batch of Reagecon’s finalised ICP-MS standards are subjected to an assay on the instrument prior to bottling. This assay verifies the target element assay and verifies that the level of impurities have not changed significantly during the manufacturing process. The results are then reported and certified in mg/Kg and mg/L on the basis of weight and the density measurement of the standard. All of the volumetric, titrimetric and gravimetric functions are carried out under a highly regulated temperature regime, using equipment calibrated by Reagecon’s engineers. Reagecon holds ISO/IEC 17025 accreditation for temperature calibration in the range of -196 to +1200°C (INAB Ref:265C). The density measurements are also highly temperature dependent and are carried out in Reagecon’s specialised Density Laboratory. Reagecon is ISO/IEC 17025 Accredited (INAB Ref:264T), for density measurement using an Oscillating U-Tube Method in accordance with the ASTM D4052 method. The company is an extensive producer of density standards.

ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL1D2</td>
<td>AL 99.999</td>
<td>5% HNO₃</td>
<td>1</td>
<td>100ml</td>
</tr>
<tr>
<td>PAL1A2</td>
<td>AL 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PAL2A2</td>
<td>AL 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAL2B2</td>
<td>AL 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAL2C2</td>
<td>AL 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PAL2B4-500ML</td>
<td>AL 99.999</td>
<td>3.5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PAL4A2</td>
<td>AL 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAL4B2</td>
<td>AL 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAL4B4-500ML</td>
<td>AL 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PAL2A3</td>
<td>AL 99.999</td>
<td>5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAL2B3</td>
<td>AL 99.999</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAL2C3</td>
<td>AL 99.999</td>
<td>5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PAL4A3</td>
<td>AL 99.999</td>
<td>5% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAL4B3</td>
<td>AL 99.999</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAL4C3</td>
<td>AL 99.999</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Starting Material and its Purity %</td>
<td>Matrix</td>
<td>Conc µg/ml</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------</td>
<td>-------------------------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Antimony</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSB1A4</td>
<td>Sb 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PSB2A4</td>
<td>Sb 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSB2C4</td>
<td>Sb 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSB4A4</td>
<td>Sb 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSB2A5</td>
<td>Sb 99.999</td>
<td>10% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSB2C5</td>
<td>Sb 99.999</td>
<td>10% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSB4A5</td>
<td>Sb 99.999</td>
<td>10% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSB2A11</td>
<td>Sb 99.999</td>
<td>1% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSB2B4</td>
<td>C₆H₅K₃O₇·3H₂O</td>
<td>6% Tart. Acid</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSB4B4</td>
<td>C₆H₅K₃O₇·3H₂O</td>
<td>6% Tart. Acid, tr. HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSB2B5</td>
<td>Sb 99.999</td>
<td>20% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSB4B5</td>
<td>Sb 99.999</td>
<td>20% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>Arsenic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAS01D6</td>
<td>As 99.999</td>
<td>2 % HNO₃</td>
<td>10</td>
<td>50ml</td>
</tr>
<tr>
<td>PAS01A6</td>
<td>As 99.999</td>
<td>2 % HNO₃</td>
<td>10</td>
<td>100ml</td>
</tr>
<tr>
<td>PAS1A2</td>
<td>As 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PAS1C3</td>
<td>As 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PAS2A2</td>
<td>As 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAS2B2</td>
<td>As 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAS2C2</td>
<td>As 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PAS2C2-1000ml</td>
<td>As 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>1L</td>
</tr>
<tr>
<td>PAS4A2</td>
<td>As 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAS4B2</td>
<td>As 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAS4B4-500ml</td>
<td>As 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PAS2B3</td>
<td>As 99.999</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAS4B3</td>
<td>As 99.999</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSS2C2</td>
<td>As 99.999</td>
<td>0.5M HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>Barium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBA1A2</td>
<td>BaCO₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PBA2A2</td>
<td>BaCO₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PBA2B2</td>
<td>BaCO₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>ICP-GLO-BA-100</td>
<td>BaCO₃ 99.999</td>
<td>0.5M HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PBA2C2</td>
<td>BaCO₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PBA4A2</td>
<td>BaCO₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PBA4B2</td>
<td>BaCO₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PBA4B4-500ML</td>
<td>BaCO₃ 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PBA2A3</td>
<td>BaCO₃ 99.999</td>
<td>2% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PBA2B3</td>
<td>BaCO₃ 99.999</td>
<td>2-5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PBA2C3</td>
<td>BaCO₃ 99.999</td>
<td>2% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PBA4A3</td>
<td>BaCO₃ 99.999</td>
<td>2% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PBA4B3</td>
<td>BaCO₃ 99.999</td>
<td>2-5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
</tbody>
</table>
ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beryllium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBE1A2</td>
<td>BeO 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PBE2A2</td>
<td>BeO 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PBE2B2</td>
<td>BeO 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PBE2C2</td>
<td>BeO 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PBE4A2</td>
<td>BeO 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PBE4B2</td>
<td>BeO 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PBe4B4-500ML</td>
<td>BeO 99.99</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Bismuth</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PB1A6</td>
<td>Bi 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PB1A6-125ml</td>
<td>Bi 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>125ml</td>
</tr>
<tr>
<td>PB1A6-500ml</td>
<td>Bi 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PB1A6</td>
<td>Bi 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PB1C6</td>
<td>Bi 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PB1A6</td>
<td>Bi 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PB1C6</td>
<td>Bi 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PB1B6</td>
<td>Bi 99.99</td>
<td>10% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PB1B6</td>
<td>Bi 99.99</td>
<td>10% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PB1A6</td>
<td>Bi 99.99</td>
<td>1.5M HNO₃</td>
<td>1,000</td>
<td>1L</td>
</tr>
<tr>
<td><strong>Boron</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PB1A7</td>
<td>H₃BO₃ 99.99</td>
<td>H₂O</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PB2A7</td>
<td>H₃BO₃ 99.99</td>
<td>H₂O</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PB2B7</td>
<td>H₃BO₃ 99.99</td>
<td>H₂O</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>ICP-GLO-B-100</td>
<td>H₃BO₃ 99.99</td>
<td>0.5M NH₄</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PB2C7</td>
<td>H₃BO₃ 99.99</td>
<td>H₂O</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PB3A7</td>
<td>H₃BO₃ 99.99</td>
<td>H₂O</td>
<td>5,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PB4A7</td>
<td>H₃BO₃ 99.99</td>
<td>H₂O</td>
<td>5,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PB4B7</td>
<td>H₃BO₃ 99.99</td>
<td>H₂O</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PB4N-250ML</td>
<td>H₃BO₃ 99.99</td>
<td>0.5N HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Cadmium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCD01D6</td>
<td>Cd 99.99</td>
<td>2% HNO₃</td>
<td>10</td>
<td>50ml</td>
</tr>
<tr>
<td>PCD01A6</td>
<td>Cd 99.99</td>
<td>2% HNO₃</td>
<td>10</td>
<td>100ml</td>
</tr>
<tr>
<td>PCD1A2</td>
<td>Cd 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PCD1C3</td>
<td>Cd 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PCD2A2</td>
<td>Cd 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCD2B2</td>
<td>Cd 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCD2C2</td>
<td>Cd 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCD2C4</td>
<td>Cd 99.99</td>
<td>0.5M HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCD4A2</td>
<td>Cd 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCD4B2</td>
<td>Cd 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCD4B4-500ML</td>
<td>Cd 99.99</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCD2A3</td>
<td>Cd 99.99</td>
<td>2% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCD2B3</td>
<td>Cd 99.99</td>
<td>2-5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCD2C3</td>
<td>Cd 99.99</td>
<td>2% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCD4B3</td>
<td>Cd 99.99</td>
<td>2-5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Starting Material and its Purity %</td>
<td>Matrix</td>
<td>Conc µg/ml</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------</td>
<td>--------</td>
<td>------------</td>
<td>----------</td>
</tr>
<tr>
<td>PCA1A2</td>
<td>CaCO₃ 99.995 2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCA2A2</td>
<td>CaCO₃ 99.995 2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCA2B2</td>
<td>CaCO₃ 99.995 2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PCA2B4-500ML</td>
<td>CaCO₃ 99.995 3.5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PCA2C2</td>
<td>CaCO₃ 99.995 2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PCA5A2</td>
<td>CaCO₃ 99.995 2 - 5% HNO₃</td>
<td>5,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCA4A2</td>
<td>CaCO₃ 99.995 2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCA4B2</td>
<td>CaCO₃ 99.995 2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PCA4C2</td>
<td>CaCO₃ 99.995 2 - 5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PCA4B4-500ML</td>
<td>CaCO₃ 99.995 3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PCA2A3</td>
<td>CaCO₃ 99.995 2% HCl</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCA2B3</td>
<td>CaCO₃ 99.995 2-5% HCl</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PCA2C3</td>
<td>CaCO₃ 99.995 2% HCl</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PCA4A3</td>
<td>CaCO₃ 99.995 2% HCl</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCA4B3</td>
<td>CaCO₃ 99.995 2-5% HCl</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PCA4C3</td>
<td>CaCO₃ 99.995 2-5% HCl</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PC2A7</td>
<td>Tartaric Acid 99.7 H₂O</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PC2B7</td>
<td>Tartaric Acid 99.7 H₂O</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PC4B7</td>
<td>Tartaric Acid 99.7 H₂O</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PCE1A2</td>
<td>CeO₂ 99.99 2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCE2A2</td>
<td>CeO₂ 99.99 2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCE2B2</td>
<td>CeO₂ 99.99 2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PCE2C2</td>
<td>CeO₂ 99.99 2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PCE4A2</td>
<td>CeO₂ 99.99 2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCE4B2</td>
<td>CeO₂ 99.99 2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PCE4B4-500ML</td>
<td>CeO₂ 99.99 3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PCS1A2</td>
<td>CsCl 99.999 2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCS2A2</td>
<td>CsCl 99.999 2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCS2B2</td>
<td>CsCl 99.999 2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PCS2C2</td>
<td>CsCl 99.999 2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PCS4A2</td>
<td>CsCl 99.999 2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PCS4B2</td>
<td>CsCl 99.999 2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PCL2A7</td>
<td>NaCl 99.99 H₂O</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
</tbody>
</table>
# ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chromium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCR1A2</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PCR1C3</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PCR2A2</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCR2B2</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCR2C2</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCR4A2</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCR4B2</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCR4B4-500ML</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCR2C3</td>
<td>Cr 99.995</td>
<td>2% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCR4A3</td>
<td>Cr 99.995</td>
<td>2% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCR4B3</td>
<td>Cr 99.995</td>
<td>2-5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCR4C3</td>
<td>Cr 99.995</td>
<td>2-5% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCR2A7</td>
<td>Cr 99.995</td>
<td>2% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCR2B8</td>
<td>Cr 99.995</td>
<td>2-5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCR2A5</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>H₂O</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCR2B7</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>H₂O</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCR4B7</td>
<td>Cr(NO₃)₃·9H₂O 99.99+</td>
<td>H₂O</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Cobalt</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCO1A2</td>
<td>Co 99.995</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PCO1C3</td>
<td>Co 99.995</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PCO2A2</td>
<td>Co 99.995</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCO2B2</td>
<td>Co 99.995</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCO2C2</td>
<td>Co 99.995</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCO2C3</td>
<td>Co 99.995</td>
<td>0.5M HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCO4A2</td>
<td>Co 99.995</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCO4B2</td>
<td>Co 99.995</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCO4B4-500ML</td>
<td>Co 99.995</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCO2B3</td>
<td>Co 99.995</td>
<td>2-5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCO4A3</td>
<td>Co 99.995</td>
<td>2% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCO4B3</td>
<td>Co 99.995</td>
<td>2-5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCO4C3</td>
<td>Co 99.995</td>
<td>2% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Starting Material and its Purity %</td>
<td>Matrix</td>
<td>Conc µg/ml</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------</td>
<td>--------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Copper</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCU1A2</td>
<td>Cu 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PCU1C3</td>
<td>Cu 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PCU2A2</td>
<td>Cu 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCU2B2</td>
<td>Cu 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCU2C2</td>
<td>Cu 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCU4A2</td>
<td>Cu 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCU4B2</td>
<td>Cu 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCu4B4-500ML</td>
<td>Cu 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCU2A3</td>
<td>Cu 99.999</td>
<td>2% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCU2B3</td>
<td>Cu 99.999</td>
<td>2-5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCU2C3</td>
<td>Cu 99.999</td>
<td>2% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PCU4A3</td>
<td>Cu 99.999</td>
<td>2% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PCU4B3</td>
<td>Cu 99.999</td>
<td>2-5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PCU4C3</td>
<td>Cu 99.999</td>
<td>2-5% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Dysprosium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PDY1A2</td>
<td>DY₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PDY2A2</td>
<td>DY₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PDY2B2</td>
<td>DY₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PDY2C2</td>
<td>DY₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PDY4A2</td>
<td>DY₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PDY4B2</td>
<td>DY₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Eribium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PER1A2</td>
<td>Er₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PER2A2</td>
<td>Er₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PER2B2</td>
<td>Er₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PER2C2</td>
<td>Er₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PER4A2</td>
<td>Er₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PER4B2</td>
<td>Er₂O₃ 99.99+</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Europium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEU1A2</td>
<td>Eu₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PEU2A2</td>
<td>Eu₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PEU2B2</td>
<td>Eu₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PEU2C2</td>
<td>Eu₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PEU4A2</td>
<td>Eu₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PEU4B2</td>
<td>Eu₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Gadolinium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PGD1A2</td>
<td>Gd₂O₃ 99.995</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PGD2A2</td>
<td>Gd₂O₃ 99.995</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PGD2B2</td>
<td>Gd₂O₃ 99.995</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PGD2C2</td>
<td>Gd₂O₃ 99.995</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PGD4A2</td>
<td>Gd₂O₃ 99.995</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PGD4B2</td>
<td>Gd₂O₃ 99.995</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
</tbody>
</table>
## ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and Its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gallium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PGA1A2</td>
<td>Ga 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PGA2A2</td>
<td>Ga 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PGA2B2</td>
<td>Ga 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PGA2C2</td>
<td>Ga 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PGA4A2</td>
<td>Ga 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PGA4B2</td>
<td>Ga 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Germanium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PGE1A7</td>
<td>Ge 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PGE2A7</td>
<td>Ge 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PGE2B7</td>
<td>Ge 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PGE2C7</td>
<td>Ge 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PGE4A7</td>
<td>Ge 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PGE4B7</td>
<td>Ge 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Gold</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAU001A2</td>
<td>Au 99.998</td>
<td>5% HCl</td>
<td>1</td>
<td>100ml</td>
</tr>
<tr>
<td>PAU1A8</td>
<td>Au 99.998</td>
<td>5% HCl</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PAU2A8</td>
<td>Au 99.998</td>
<td>5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAU2B8</td>
<td>Au 99.998</td>
<td>5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAU2C8</td>
<td>Au 99.998</td>
<td>5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PAU4A8</td>
<td>Au 99.998</td>
<td>5% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAU001C8</td>
<td>Au 99.998</td>
<td>10% HCl</td>
<td>1</td>
<td>500ml</td>
</tr>
<tr>
<td>PAU002C8</td>
<td>Au 99.998</td>
<td>10% HCl</td>
<td>2</td>
<td>500ml</td>
</tr>
<tr>
<td>PAU005C8</td>
<td>Au 99.998</td>
<td>10% HCl</td>
<td>5</td>
<td>500ml</td>
</tr>
<tr>
<td>PAU4B8</td>
<td>Au 99.998</td>
<td>10% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAU4B8-500ml</td>
<td>Au 99.998</td>
<td>10% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PAU-1G/L</td>
<td>Au 99.998</td>
<td>2M HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAU-3G/L</td>
<td>Au 99.998</td>
<td>2M HCl</td>
<td>3,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAU-10G/L</td>
<td>Au 99.998</td>
<td>2M HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Hafnium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHF1A3</td>
<td>Hf 99.9</td>
<td>1% HF + 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PHF2A3</td>
<td>Hf 99.9</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PHF2C3</td>
<td>Hf 99.9</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PHF4A3</td>
<td>HfOCl₂·8H₂O 99.9</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PHF2B3</td>
<td>HfOCl₂·8H₂O 99.9</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PHF4B3</td>
<td>HfOCl₂·8H₂O 99.9</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Starting Material and its Purity %</td>
<td>Matrix</td>
<td>Conc µg/ml</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------</td>
<td>--------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Holmium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHO1A3</td>
<td>Ho₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PHO2A2</td>
<td>Ho₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PHO2B2</td>
<td>Ho₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PHO2C2</td>
<td>Ho₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PHO4A2</td>
<td>Ho₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PHO4B2</td>
<td>Ho₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Indium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIN1A2</td>
<td>In 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PIN1A2-125ml</td>
<td>In 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>125ml</td>
</tr>
<tr>
<td>PIN1A2-500ml</td>
<td>In 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PIN2A2</td>
<td>In 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PIN2B2</td>
<td>In 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PIN2C2</td>
<td>In 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PIN2B4-500ML</td>
<td>In 99.999</td>
<td>3.5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PIN4A2</td>
<td>In 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PIN4B2</td>
<td>In 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PIN4C2</td>
<td>In 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Iridium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIR1A8</td>
<td>(NH₄)₂IrCl₆ 99.998</td>
<td>5% HCl</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PIR2A8</td>
<td>(NH₄)₂IrCl₆ 99.998</td>
<td>10% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PIR2B8</td>
<td>(NH₄)₂IrCl₆ 99.998</td>
<td>10% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PIR2C8</td>
<td>(NH₄)₂IrCl₆ 99.998</td>
<td>5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PIR4A8</td>
<td>(NH₄)₂IrCl₆ 99.998</td>
<td>5% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PIR4B8</td>
<td>(NH₄)₂IrCl₆ 99.998</td>
<td>10% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Iron</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PFE1A2</td>
<td>Fe 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PFE1C3</td>
<td>Fe 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PFE2A2</td>
<td>Fe 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PFE2B2</td>
<td>Fe 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PFE2B4-500ML</td>
<td>Fe 99.999</td>
<td>3.5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>ICP-GLO-FE-100</td>
<td>Fe 99.999</td>
<td>0.5M HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PFE2C2</td>
<td>Fe 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PFE4A2</td>
<td>Fe 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PFE4B2</td>
<td>Fe 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PFE4C2</td>
<td>Fe 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PFE4B4-500ML</td>
<td>Fe 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PFE2A3</td>
<td>Fe 99.999</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PFE2B3</td>
<td>Fe 99.999</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PFE2C3</td>
<td>Fe 99.999</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PFE4A3</td>
<td>Fe 99.999</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PFE4B3</td>
<td>Fe 99.999</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PFE4C3</td>
<td>Fe 99.999</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
</tbody>
</table>
# ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lanthanum</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLA1A2</td>
<td>LA₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PLA2A2</td>
<td>LA₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PLA2B2</td>
<td>LA₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PLA2C2</td>
<td>LA₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PLA4A2</td>
<td>LA₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PLA4B2</td>
<td>LA₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Lead</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PPB01D6</td>
<td>Pb 99.999</td>
<td>2% HNO₃</td>
<td>10</td>
<td>50ml</td>
</tr>
<tr>
<td>PPB01A6</td>
<td>Pb 99.999</td>
<td>2% HNO₃</td>
<td>10</td>
<td>100ml</td>
</tr>
<tr>
<td>PPB1A2</td>
<td>Pb 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PPB1C3</td>
<td>Pb 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PPB2A2</td>
<td>Pb 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PPB2B2</td>
<td>Pb 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PPB2C2</td>
<td>Pb 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PPB4A2</td>
<td>Pb 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PPB4B2</td>
<td>Pb 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PPB4B4-500ML</td>
<td>Pb 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Lithium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLI1A2</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PLI1A2-500ml</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PLI2A2</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PLI2B2</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PLI2C2</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PLI4A2</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PLI4B2</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PLI4C4</td>
<td>Li₂CO₃ 99.997</td>
<td>0.5M HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PLI2A3</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PLI2B3</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PLI2C3</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PLI4A3</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PLI4B3</td>
<td>Li₂CO₃ 99.997</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Lutetium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLU1A2</td>
<td>Lu₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PLU2A2</td>
<td>Lu₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PLU2B2</td>
<td>Lu₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PLU2C2</td>
<td>Lu₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PLU4A2</td>
<td>Lu₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PLU4B2</td>
<td>Lu₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Starting Material and its Purity %</td>
<td>Matrix</td>
<td>Conc µg/ml</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------</td>
<td>--------------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Magnesium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PMG1A2</td>
<td>Mg 99.99 2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMG2A2</td>
<td>Mg 99.99 2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMG2B2</td>
<td>Mg 99.99 2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PMG2C2</td>
<td>Mg 99.99 2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PMG2B4-500ML</td>
<td>Mg 99.99 3.5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PMG2C4</td>
<td>Mg 99.99 0.5M HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PMG5A2</td>
<td>Mg 99.99 2 - 5% HNO₃</td>
<td>5,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMG4A2</td>
<td>Mg 99.99 2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMG4B2</td>
<td>Mg 99.99 2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PMG4B4-500ML</td>
<td>Mg 99.99 3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PMG2A3</td>
<td>Mg 99.99 2 - 5% HCl</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMG2B3</td>
<td>Mg 99.99 2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PMG2C3</td>
<td>Mg 99.99 2 - 5% HCl</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PMG4A3</td>
<td>Mg 99.99 2 - 5% HCl</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMG4B3</td>
<td>Mg 99.99 2 - 5% HCl</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PMG4C3</td>
<td>Mg 99.99 2 - 5% HCl</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td><strong>Manganese</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PMN1D2</td>
<td>Mn 99.98 5% HNO₃</td>
<td>1</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMN1A2</td>
<td>Mn 99.98 2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMN1C3</td>
<td>Mn 99.98 2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PMN2A2</td>
<td>Mn 99.98 2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMN2B2</td>
<td>Mn 99.98 2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PMN2C2</td>
<td>Mn 99.98 2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PMN2C3</td>
<td>Mn 99.98 0.5M HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PMN4A2</td>
<td>Mn 99.98 2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PMN4B2</td>
<td>Mn 99.98 2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PMN4B4-500ML</td>
<td>Mn 99.98 3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PMN4C3</td>
<td>Mn 99.98 2 - 5% HCl</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
</tbody>
</table>
ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mercury</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHG0001A2</td>
<td>Hg 99.999+</td>
<td>5% HNO₃</td>
<td>0.1</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG0005A2</td>
<td>Hg 99.999+</td>
<td>5% HNO₃</td>
<td>0.5</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG001A2</td>
<td>Hg 99.999+</td>
<td>5% HNO₃</td>
<td>1</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG001A6</td>
<td>Hg 99.999+</td>
<td>2 - 5% HNO₃</td>
<td>1</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG6A6</td>
<td>Hg 99.999+</td>
<td>10% HNO₃</td>
<td>1</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG002A2</td>
<td>Hg 99.999+</td>
<td>5% HNO₃</td>
<td>2</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG7A2</td>
<td>Hg 99.999+</td>
<td>2 - 5% HNO₃</td>
<td>5</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG005A2</td>
<td>Hg 99.999+</td>
<td>5% HNO₃</td>
<td>5</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG10C3</td>
<td>Hg 99.999+</td>
<td>5% HNO₃</td>
<td>10</td>
<td>50ml</td>
</tr>
<tr>
<td>ICP-Hg-CYM</td>
<td>Hg 99.999+</td>
<td>5% HNO₃</td>
<td>10</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG10C2</td>
<td>Hg 99.999+</td>
<td>5% HNO₃</td>
<td>10</td>
<td>500ml</td>
</tr>
<tr>
<td>PHG34-10-20ML</td>
<td>Hg 99.999+</td>
<td>10% HNO₃</td>
<td>10</td>
<td>20 mL</td>
</tr>
<tr>
<td>PHG1A6</td>
<td>Hg 99.999+</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG1C3</td>
<td>Hg 99.999+</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PHG2A4</td>
<td>Hg 99.999+</td>
<td>4% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG2C3</td>
<td>Hg 99.999+</td>
<td>2M HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PHG2A6</td>
<td>Hg 99.999+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG2B6</td>
<td>Hg 99.999+</td>
<td>10% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PHG2A2</td>
<td>Hg 99.999+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG2C6</td>
<td>Hg 99.999+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PHG4A6</td>
<td>Hg 99.999+</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PHG4B6</td>
<td>Hg 99.999+</td>
<td>10% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
</tbody>
</table>

| **Molybdenum** | | | | |
| PMO1A7        | Mo 99.999                       | 2% NH₄OH | 100   | 100ml     |
| PMO1C3        | Mo 99.999                       | 2% NH₄OH | 100   | 500ml     |
| PMO2A7        | Mo 99.999                       | 2% NH₄OH | 1,000 | 100ml     |
| PMO2B7        | Mo 99.999                       | 2% NH₄OH | 1,000 | 250ml     |
| PMO2C1L       | Mo 99.999                       | H₂O      | 1,000 | 1L        |
| PMO2C7        | Mo 99.999                       | 2% NH₄OH | 1,000 | 500ml     |
| PMO4A7        | Mo 99.999                       | 2% NH₄OH | 10,000| 100ml     |
| PMO4B4-500ML  | Mo 99.999                       | 3.5% NH₄OH| 10,000| 500ml     |
| PMO4B7        | Mo 99.999                       | H₂O      | 10,000| 250ml     |
| PMO2A10       | (NH₄)₆Mo₇O₂₄·4H₂O 99.9          | 2 - 5% HNO₃, tr. HF| 1,000 | 100ml     |
| PMO2A11       | (NH₄)₆Mo₇O₂₄·4H₂O 99.9          | 1% HCl   | 1,000 | 100ml     |

<p>| <strong>Neodymium</strong> | | | | |
| PND1A2        | Nd₂O₃ 99.99                     | 2 - 5% HNO₃| 100   | 100ml     |
| PND2A2        | Nd₂O₃ 99.99                     | 2 - 5% HNO₃| 1,000 | 100ml     |
| PND2B2        | Nd₂O₃ 99.99                     | 2 - 5% HNO₃| 1,000 | 250ml     |
| PND2C2        | Nd₂O₃ 99.99                     | 2 - 5% HNO₃| 1,000 | 500ml     |
| PND4A2        | Nd₂O₃ 99.99                     | 2 - 5% HNO₃| 10,000| 100ml     |
| PND4B2        | Nd₂O₃ 99.99                     | 2 - 5% HNO₃| 10,000| 250ml     |</p>
<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nickel</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PNI1A2</td>
<td>Ni 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PNI1C3</td>
<td>Ni 99.999</td>
<td>2% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PNI2A2</td>
<td>Ni 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PNI2B2</td>
<td>Ni 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PNI2C2</td>
<td>Ni 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PNI4A2</td>
<td>Ni 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PNI4B2</td>
<td>Ni 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PNI4B4-500ML</td>
<td>Ni 99.999</td>
<td>3.3% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PNI4C3</td>
<td>Ni 99.999</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Niobium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PNB1A9</td>
<td>Nb 99.9+</td>
<td>1% HF + 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PNB2A9</td>
<td>Nb 99.9+</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PNB2C9</td>
<td>Nb 99.9+</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PNB4A9</td>
<td>Nb 99.9+</td>
<td>1% HF + 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PNB2B9</td>
<td>Nb 99.9+</td>
<td>H₂O, tr. HF</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PNB4B9</td>
<td>Nb 99.9+</td>
<td>H₂O, tr. HF</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Osmium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-HR-15</td>
<td>(NH₄)₂OsCl₆ 99.99</td>
<td>H₂O</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>ICP-HR-15HCL</td>
<td>(NH₄)₂OsCl₆ 99.99</td>
<td>2% HCl</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>POS2A2-100</td>
<td>(NH₄)₂OsCl₆ 99.99</td>
<td>5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>POS2A2</td>
<td>(NH₄)₂OsCl₆ 99.99</td>
<td>5% HCl</td>
<td>1,000</td>
<td>1L</td>
</tr>
<tr>
<td>POSs4B4-500ML</td>
<td>(NH₄)₂OsCl₆ 99.99</td>
<td>5% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Palladium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PPD1A8</td>
<td>Pd 99.999</td>
<td>5% HCl</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PPD2A8</td>
<td>Pd 99.999</td>
<td>5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PPD2B8</td>
<td>Pd 99.999</td>
<td>5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PPD2C8</td>
<td>Pd 99.999</td>
<td>5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PPD4B8</td>
<td>Pd 99.999</td>
<td>5% HCl</td>
<td>10,000</td>
<td>30 mL</td>
</tr>
<tr>
<td>PPD2A9</td>
<td>Pd 99.999</td>
<td>10% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td><strong>Phosphorus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PP1A7</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>0.05% H₂SO₄</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PP2A7</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>0.05% H₂SO₄</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PP2C7</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>0.05% H₂SO₄</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PP4A7</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>0.05% H₂SO₄</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PP1C3</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>H₂O</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PP2B7</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>H₂O</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PP2B4-500ML</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>H₂O</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PPS5A7</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>H₂O</td>
<td>5,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PP4B7</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>H₂O</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PP4B4-500ML</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>H₂O</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PP2A2</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PP2C7-1000ML</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>2% HNO₃</td>
<td>1,000</td>
<td>1L</td>
</tr>
<tr>
<td>PP4A2</td>
<td>NH₄H₂PO₄ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
</tbody>
</table>
## ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and Its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phosphate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PPT2C3</td>
<td>NH₄H₂PO₄, 99.999</td>
<td>H₂O</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Platinum</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PPT1A8</td>
<td>Pt 99.995</td>
<td>5% HCl</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PPT2A8</td>
<td>Pt 99.995</td>
<td>5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PPT2B8</td>
<td>Pt 99.995</td>
<td>5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PPT2C8</td>
<td>Pt 99.995</td>
<td>5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PPT4A8</td>
<td>Pt 99.995</td>
<td>5% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PPT2A13</td>
<td>Pt 99.995</td>
<td>10% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PPT4B8</td>
<td>Pt 99.995</td>
<td>10% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PPT2C1L</td>
<td>Pt 99.995</td>
<td>2M HCl</td>
<td>1,000</td>
<td>1L</td>
</tr>
<tr>
<td><strong>Potassium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PK1A2</td>
<td>KNO₃, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PK2A2</td>
<td>KNO₃, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PK2B2</td>
<td>KNO₃, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PK2C2</td>
<td>KNO₃, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PK2B4-1500ML</td>
<td>KNO₃, 99.999</td>
<td>3.5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PK3A2</td>
<td>KNO₃, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>5,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PK4A2</td>
<td>KNO₃, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PK4B2</td>
<td>KNO₃, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PK4B4-1500ML</td>
<td>KNO₃, 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PK2A3</td>
<td>KCl 99.999</td>
<td>H₂O</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PK2C3</td>
<td>KCl 99.999</td>
<td>H₂O</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PK4A3</td>
<td>KCl 99.999</td>
<td>H₂O</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PK2B3</td>
<td>KCl 99.999</td>
<td>2-5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PK4B3</td>
<td>KCl 99.999</td>
<td>2-5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Praseodymium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PPR1A2</td>
<td>Pr₂O₃, 99.999</td>
<td>5% HCl</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PPR2A2</td>
<td>Pr₂O₃, 99.999</td>
<td>5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PPR2B2</td>
<td>Pr₂O₃, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PPR2C2</td>
<td>Pr₂O₃, 99.999</td>
<td>5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PPR4A2</td>
<td>Pr₂O₃, 99.999</td>
<td>5% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PPR4B2</td>
<td>Pr₂O₃, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Rhenium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRE1A7</td>
<td>NH₄ReO₄, 99.999</td>
<td>H₂O</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PRE2A7</td>
<td>NH₄ReO₄, 99.999</td>
<td>H₂O</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRE2B7</td>
<td>NH₄ReO₄, 99.999</td>
<td>H₂O</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PRE2C7</td>
<td>NH₄ReO₄, 99.999</td>
<td>H₂O</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PRE4A7</td>
<td>NH₄ReO₄, 99.999</td>
<td>H₂O</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRE4B7</td>
<td>NH₄ReO₄, 99.999</td>
<td>H₂O</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PRE2A2</td>
<td>NH₄ReO₄, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Starting Material and its Purity %</td>
<td>Matrix</td>
<td>Conc µg/ml</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------</td>
<td>--------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Rhodium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRH2A2</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PRH2A6</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PRH1A8</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>5% HCl</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PRH2A8</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>ICP-CYMRH-100</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>3% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRH2C8</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PRH4A8</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>5% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRH2B3144</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>10% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRH2B8</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>10% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PRH4B8</td>
<td>(NH₄)₃RhCl, 99.99</td>
<td>10% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Rubidium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRB1A2</td>
<td>RbNO₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PRB2A2</td>
<td>RbNO₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRB2B2</td>
<td>RbNO₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PRB2C2</td>
<td>RbNO₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PRB4A2</td>
<td>RbNO₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRB4B2</td>
<td>RbNO₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Ruthenium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRU1A8</td>
<td>(NH₄)₃RuCl, 99.99</td>
<td>5% HCl</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PRU2A8</td>
<td>(NH₄)₃RuCl, 99.99</td>
<td>5% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRU2C8</td>
<td>(NH₄)₃RuCl, 99.99</td>
<td>5% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PRU4A8</td>
<td>(NH₄)₃RuCl, 99.99</td>
<td>5% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRU2B8</td>
<td>(NH₄)₃RuCl, 99.99</td>
<td>10% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PRU3A8</td>
<td>(NH₄)₃RuCl, 99.99</td>
<td>10% HCl</td>
<td>5,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRU3B8</td>
<td>(NH₄)₃RuCl, 99.99</td>
<td>10% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PRU4B8</td>
<td>(NH₄)₃RuCl, 99.99</td>
<td>10% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Samarium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSM1A2</td>
<td>Sm₂O₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PSM2A2</td>
<td>Sm₂O₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSM2B2</td>
<td>Sm₂O₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSM2C2</td>
<td>Sm₂O₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSM4A2</td>
<td>Sm₂O₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSM4B2</td>
<td>Sm₂O₃, 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Scandium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSC1A2</td>
<td>Sc₂O₃, 99.9999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PSC1A2-500ml</td>
<td>Sc₂O₃, 99.9999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PSC2A2</td>
<td>Sc₂O₃, 99.9999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSC2B2</td>
<td>Sc₂O₃, 99.9999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSC2C2</td>
<td>Sc₂O₃, 99.9999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSC4A2</td>
<td>Sc₂O₃, 99.9999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSC4B2</td>
<td>Sc₂O₃, 99.9999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSC2B4-500ML</td>
<td>Sc₂O₃, 99.9999</td>
<td>3.5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
</tbody>
</table>
## ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and Its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Selenium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSE001A5</td>
<td>SeO₂, 99.9</td>
<td>1% HCl</td>
<td>1</td>
<td>100ml</td>
</tr>
<tr>
<td>PSE005A5</td>
<td>SeO₂, 99.9</td>
<td>1% HCl</td>
<td>5</td>
<td>100ml</td>
</tr>
<tr>
<td>PSE010A5</td>
<td>SeO₂, 99.9</td>
<td>1% HCl</td>
<td>10</td>
<td>100ml</td>
</tr>
<tr>
<td>PSE9A2</td>
<td>Se 99.999</td>
<td>2 - 5% HNO₃</td>
<td>0.5</td>
<td>100ml</td>
</tr>
<tr>
<td>PSE1A2</td>
<td>Se 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PSE1C3</td>
<td>Se 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PSE2A2</td>
<td>Se 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSE2B2</td>
<td>Se 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSE2C2</td>
<td>Se 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSE4A2</td>
<td>Se 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSE4B2</td>
<td>Se 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSE4C3</td>
<td>Se 99.999</td>
<td>0.5M HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Silicon</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSI05A5</td>
<td>Na₂SiO₃, 99.9</td>
<td>1% HCl</td>
<td>50</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI1A5</td>
<td>Na₂SiO₃, 99.9</td>
<td>1% HCl</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI1A9</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>0.05% HF</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI2A9</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>0.05% HF</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI2C9</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>0.05% HF</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSI4A9</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>0.05% HF</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI4C9</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>0.05% HF</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSI2A7</td>
<td>Na₂SiO₃, 99.9</td>
<td>H₂O</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI2B7</td>
<td>Na₂SiO₃, 99.9</td>
<td>H₂O</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSI2C7</td>
<td>Na₂SiO₃, 99.9</td>
<td>H₂O</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSI4A7</td>
<td>Na₂SiO₃, 99.9</td>
<td>H₂O</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI4B7</td>
<td>Na₂SiO₃, 99.9</td>
<td>H₂O</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSI4B4-500ML</td>
<td>Na₂SiO₃, 99.9</td>
<td>H₂O</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>ICP-GLO-SI-100</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>1M HNO₃ + 1-2% HF</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI2A10</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>2 - 5% HNO₃, tr. HF</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI2C10</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>2 - 5% HNO₃, tr. HF</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSI2A2</td>
<td>Na₂SiO₃, 99.9</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSI2C2</td>
<td>Na₂SiO₃, 99.9</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSI2B9</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>H₂O, tr. HF</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSI4B9</td>
<td>(NH₄)₂SiF₆, 99.99</td>
<td>H₂O, tr. HF</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Silver</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAG1A2</td>
<td>Ag 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PAG2A2</td>
<td>Ag 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAG2B2</td>
<td>Ag 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAG2C2</td>
<td>Ag 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PAG4A2</td>
<td>Ag 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PAG4B2</td>
<td>Ag 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PAG4B4-500ml</td>
<td>Ag 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Starting Material and its Purity %</td>
<td>Matrix</td>
<td>Conc µg/ml</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------</td>
<td>--------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Sodium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PNA10A2</td>
<td>NaNO₃ 99.99 2 - 5% HNO₃</td>
<td>10</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PNA1A2</td>
<td>NaNO₃ 99.99 2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PNA2A2</td>
<td>NaNO₃ 99.99 2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PNA2B2</td>
<td>NaNO₃ 99.99 2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PNA2B4-500ML</td>
<td>NaNO₃ 99.99 3.5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PNA2C2</td>
<td>NaNO₃ 99.99 2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PNA5A2</td>
<td>NaNO₃ 99.99 2 - 5% HNO₃</td>
<td>5,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PNA4A2</td>
<td>NaNO₃ 99.99 2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PNA4A4-500ML</td>
<td>NaNO₃ 99.99 3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PNA2A3</td>
<td>NaCl 99.999 H₂O</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PNA2C3</td>
<td>NaCl 99.999 H₂O</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PNA4A3</td>
<td>NaCl 99.999 H₂O</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PNA2B3</td>
<td>NaCl 99.999 2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PNA4B3</td>
<td>NaCl 99.999 2 - 5% HCl</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PNA4C3</td>
<td>NaCl 99.999 2 - 5% HCl</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>Strontium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSR1A2</td>
<td>SrCO₃ 99.995 2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PSR2A2</td>
<td>SrCO₃ 99.995 2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PSR2B2</td>
<td>SrCO₃ 99.995 2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PSR2C2</td>
<td>SrCO₃ 99.995 2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PSR4A2</td>
<td>SrCO₃ 99.995 2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PSR4B2</td>
<td>SrCO₃ 99.995 2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PSR4B4-500ML</td>
<td>SrCO₃ 99.995 3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PSR2A3</td>
<td>SrCO₃ 99.995 2 - 5% HCl</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PSR2B3</td>
<td>SrCO₃ 99.995 2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PSR2C3</td>
<td>SrCO₃ 99.995 2 - 5% HCl</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PSR4A3</td>
<td>SrCO₃ 99.995 2 - 5% HCl</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PSR4B3</td>
<td>SrCO₃ 99.995 2 - 5% HCl</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>Sulphur</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PS01S5</td>
<td>H₂SO₄ 99.9 1% HCl</td>
<td>15</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PS03O5</td>
<td>H₂SO₄ 99.9 1% HCl</td>
<td>30</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PS1A7</td>
<td>(NH₄)₂SO₄ 99.999 H₂O</td>
<td>100</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PS1C9</td>
<td>(NH₄)₂SO₄ 99.999 H₂O</td>
<td>100</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PS2A7</td>
<td>(NH₄)₂SO₄ 99.999 H₂O</td>
<td>1,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PS2B7</td>
<td>(NH₄)₂SO₄ 99.999 H₂O</td>
<td>1,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PS2C7</td>
<td>(NH₄)₂SO₄ 99.999 H₂O</td>
<td>1,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PS5A7</td>
<td>(NH₄)₂SO₄ 99.999 H₂O</td>
<td>5,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PS4A7</td>
<td>(NH₄)₂SO₄ 99.999 H₂O</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
<tr>
<td>PS4B7</td>
<td>(NH₄)₂SO₄ 99.999 H₂O</td>
<td>10,000</td>
<td>250ml</td>
<td></td>
</tr>
<tr>
<td>PS4B4-500ML</td>
<td>(NH₄)₂SO₄ 99.999 H₂O</td>
<td>10,000</td>
<td>500ml</td>
<td></td>
</tr>
<tr>
<td>PS4A2</td>
<td>(NH₄)₂SO₄ 99.999 2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
<td></td>
</tr>
</tbody>
</table>
## ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tantalum</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTA1A9</td>
<td>Ta 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PTA2A9</td>
<td>Ta 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTA2B9</td>
<td>Ta 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTA2C9</td>
<td>Ta 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PTA4A9</td>
<td>Ta 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTA4B9</td>
<td>Ta 99.98</td>
<td>H₂O, tr. HF</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Tellurium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTE1A10</td>
<td>Te 99.999</td>
<td>20% HCl</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PTE2A10</td>
<td>Te 99.999</td>
<td>20% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTE2C10</td>
<td>Te 99.999</td>
<td>20% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PTE2A11</td>
<td>Te 99.999</td>
<td>1% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTE2A8</td>
<td>Te 99.999</td>
<td>10% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTE2B8</td>
<td>Te 99.999</td>
<td>10% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTE2B10</td>
<td>Te 99.999</td>
<td>5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTE4B11</td>
<td>Te 99.999</td>
<td>20% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTE4B9</td>
<td>Te 99.999</td>
<td>30% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTE4B12</td>
<td>Te 99.999</td>
<td>30% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Terbium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTB1A2</td>
<td>Tb₄O₇, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PTB1A2-125ml</td>
<td>Tb₄O₇, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>125ml</td>
</tr>
<tr>
<td>PTB1A2-500ml</td>
<td>Tb₄O₇, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PTB2A2</td>
<td>Tb₄O₇, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTB2B2</td>
<td>Tb₄O₇, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTB2C2</td>
<td>Tb₄O₇, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PTB4A2</td>
<td>Tb₄O₇, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTB4B2</td>
<td>Tb₄O₇, 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Thallium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTL1A2</td>
<td>TlNO₃, 99.9995</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PTL2A2</td>
<td>TlNO₃, 99.9995</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTL2B2</td>
<td>TlNO₃, 99.9995</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTL2C2</td>
<td>TlNO₃, 99.9995</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PTL4A2</td>
<td>TlNO₃, 99.9995</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTL4B2</td>
<td>TlNO₃, 99.9995</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTL4B4-500ML</td>
<td>TlNO₃, 99.9995</td>
<td>20% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Thorium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTH1A2</td>
<td>ThO₂, 99.95</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PTH2A2</td>
<td>ThO₂, 99.95</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTH2B2</td>
<td>ThO₂, 99.95</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTH2C2</td>
<td>ThO₂, 99.95</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PTH4A2</td>
<td>ThO₂, 99.95</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTH4B2</td>
<td>ThO₂, 99.95</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTH4B4-500ML</td>
<td>ThO₂, 99.95</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Starting Material and its Purity %</td>
<td>Matrix</td>
<td>Conc µg/ml</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------</td>
<td>-----------------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Thulium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTM1A2</td>
<td>Tm₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PTM2A2</td>
<td>Tm₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTM2B2</td>
<td>Tm₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTM2C2</td>
<td>Tm₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PTM4A2</td>
<td>Tm₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTM4B2</td>
<td>Tm₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>Tin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSN1A5</td>
<td>Sn 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PSN2A5</td>
<td>Sn 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSN2C5</td>
<td>Sn 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSN2C5-1000ML</td>
<td>Sn 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>1L</td>
</tr>
<tr>
<td>PSN4A5</td>
<td>Sn 99.999</td>
<td>1% HF + 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSN2A13</td>
<td>Sn 99.999</td>
<td>10% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSN2C13</td>
<td>Sn 99.999</td>
<td>10% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSN4A19</td>
<td>Sn 99.999</td>
<td>20% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSN2A10</td>
<td>Sn 99.999</td>
<td>H₂O, tr. HF</td>
<td>10</td>
<td>100ml</td>
</tr>
<tr>
<td>PSN2A11</td>
<td>Sn 99.999</td>
<td>1% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSN2B13</td>
<td>Sn 99.999</td>
<td>1% HNO₃, 1% HF</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSN2B5</td>
<td>Sn 99.999</td>
<td>20% HCl, 1% HF</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSN4B5</td>
<td>Sn 99.999</td>
<td>20% HCl, 1% HF</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PSN2C4</td>
<td>Sn 99.999</td>
<td>2M HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PSN4B19</td>
<td>Sn 99.999</td>
<td>2% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PSN4B4-500ML</td>
<td>Sn 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>Titanium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTI1A9</td>
<td>Ti 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PTI2A9</td>
<td>Ti 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTI2C9</td>
<td>Ti 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PTI4A9</td>
<td>Ti 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTI2A10</td>
<td>Ti 99.98</td>
<td>2 - 5% HNO₃, tr. HF</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTI2A6</td>
<td>Ti 99.98</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PTI2B5</td>
<td>Ti 99.98</td>
<td>20% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTI4B5</td>
<td>Ti 99.98</td>
<td>20% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTI4B4-500ML</td>
<td>Ti 99.98</td>
<td>20% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PTI2B9</td>
<td>Ti 99.98</td>
<td>H₂O, tr. HF</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PTI4B9</td>
<td>Ti 99.98</td>
<td>H₂O, tr. HF</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>Tungsten</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PW2A7</td>
<td>W 99.99+</td>
<td>2% NH₄OH</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PW2B7</td>
<td>W 99.99+</td>
<td>2% NH₄OH</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PW2C7</td>
<td>W 99.99+</td>
<td>2% NH₄OH</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PW4A7</td>
<td>W 99.99+</td>
<td>2% NH₄OH</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PW4B7</td>
<td>W 99.99+</td>
<td>2% NH₄OH</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PW2A14</td>
<td>W 99.99+</td>
<td>1% HNO₃ + 2% HF</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PW2B14</td>
<td>W 99.99+</td>
<td>1% HNO₃ + 2% HF</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PW4B15</td>
<td>W 99.99+</td>
<td>2% HNO₃ + 5% HF</td>
<td>10,000</td>
<td>250ml</td>
</tr>
</tbody>
</table>
## ICP-MS Single Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Starting Material and Its Purity %</th>
<th>Matrix</th>
<th>Conc µg/ml</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Uranium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PU1A2</td>
<td>U₃O₈ 99.95</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PU2A2</td>
<td>U₃O₈ 99.95</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PU2B2</td>
<td>U₃O₈ 99.95</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PU2C2</td>
<td>U₃O₈ 99.95</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PU4B4-500ML</td>
<td>U₂O₃ 99.95</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Vanadium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PV1A19</td>
<td>NH₄VO₃ 99.95+</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PV2A19</td>
<td>NH₄VO₃ 99.95+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PV2C19</td>
<td>NH₄VO₃ 99.95+</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PV4A19</td>
<td>NH₄VO₃ 99.95+</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PV2B19</td>
<td>NH₄VO₃ 99.95+</td>
<td>2% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PV2B3</td>
<td>V₂O₅ 99.0</td>
<td>2% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PV4B16</td>
<td>NH₄VO₃ 99.95+</td>
<td>15% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PV4B18</td>
<td>V₂O₅ 99.0</td>
<td>15% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PV4B4-500ML</td>
<td>NH₄VO₃ 99.95+</td>
<td>10% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Ytterbium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PY2A2</td>
<td>Yb₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PYB2B2</td>
<td>Yb₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PYB2C2</td>
<td>Yb₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PYB4A2</td>
<td>Yb₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PY4B2</td>
<td>Yb₂O₃ 99.99</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td><strong>Yttrium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PY1A2</td>
<td>Y₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PY1A2-125ml</td>
<td>Y₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>125ml</td>
</tr>
<tr>
<td>PY1C3</td>
<td>Y₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PY2A2</td>
<td>Y₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PY2B2</td>
<td>Y₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PY2C2</td>
<td>Y₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PY4A2</td>
<td>Y₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PY4B2</td>
<td>Y₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PY4B2-500ml</td>
<td>Y₂O₃ 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Starting Material and its Purity %</td>
<td>Matrix</td>
<td>Conc µg/ml</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------</td>
<td>------------------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Zinc</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PZN1A2</td>
<td>Zn 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PZN1C3</td>
<td>Zn 99.999</td>
<td>2 - 5% HNO₃</td>
<td>100</td>
<td>500ml</td>
</tr>
<tr>
<td>PZN2A2</td>
<td>Zn 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PZN2B2</td>
<td>Zn 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PZN2C2</td>
<td>Zn 99.999</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PZN4A2</td>
<td>Zn 99.999</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PZN4B4-500ML</td>
<td>Zn 99.999</td>
<td>3.5% HNO₃</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PZN2A3</td>
<td>Zn 99.999</td>
<td>2% HCl</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PZN2B3</td>
<td>Zn 99.999</td>
<td>2 - 5% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PZN2C3</td>
<td>Zn 99.999</td>
<td>2% HCl</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PZN4A3</td>
<td>Zn 99.999</td>
<td>2% HCl</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PZN4B3</td>
<td>Zn 99.999</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PZN4C3</td>
<td>Zn 99.999</td>
<td>2 - 5% HCl</td>
<td>10,000</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Zirconium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PZR1A2</td>
<td>Zr 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>100</td>
<td>100ml</td>
</tr>
<tr>
<td>PZR2A2</td>
<td>Zr 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PZR2C2</td>
<td>Zr 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>500ml</td>
</tr>
<tr>
<td>PZR2C2-1000ml</td>
<td>Zr 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>1,000</td>
<td>1L</td>
</tr>
<tr>
<td>PZR4A2</td>
<td>Zr 99.98</td>
<td>1% HF + 5% HNO₃</td>
<td>10,000</td>
<td>100ml</td>
</tr>
<tr>
<td>PZR2B2</td>
<td>Zr 99.98</td>
<td>2 - 5% HNO₃</td>
<td>1,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PZR4B2</td>
<td>Zr 99.98</td>
<td>2 - 5% HNO₃</td>
<td>10,000</td>
<td>250ml</td>
</tr>
<tr>
<td>PZR2B8</td>
<td>ZrOCl₂·8H₂O 99.5</td>
<td>10% HCl</td>
<td>1,000</td>
<td>250ml</td>
</tr>
</tbody>
</table>
## ICP - MS Multi Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REICPTUNE33A</td>
<td>Ag</td>
<td>5</td>
<td>20% Hydrochloric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>As</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ba</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Be</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bi</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cd</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Co</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cr</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cu</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ge</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ir</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Li</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lu</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mn</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mo</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Na</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pd</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ru</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sc</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sn</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sr</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tb</td>
<td>2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Th</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ti</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tl</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Y</td>
<td>2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------</td>
<td>------------</td>
<td>-----------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REICPCAL29A</td>
<td>Ag</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ga</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Te</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 26 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL26A</td>
<td>Ag</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cs</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ga</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Tuning Standard, 25 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE25A</td>
<td>Ag</td>
<td>10</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ta</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------</td>
<td>------------</td>
<td>-----------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Verification Standard, 24 Elements according to Test Method 200.8</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER24A</td>
<td>Ag</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Tuning Standard, 23 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE23A</td>
<td>Al</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ga</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Te</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Standard, 23 Elements</td>
<td>As</td>
<td>100</td>
<td>5% Nitric Acid &amp; 0.2% Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 21 Elements according to Test Method 200.7</td>
<td>Ag</td>
<td>50</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>------------</td>
<td>------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REICPVER21A</td>
<td>Ag</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER21B</td>
<td>Ag</td>
<td>20</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Standard, 21 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP21-100-100</td>
<td>As</td>
<td>100</td>
<td>2-5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 20 Elements according to Test Method 6020</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL20A</td>
<td>Ag</td>
<td>10</td>
<td>2% Nitric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------</td>
<td>------------</td>
<td>------------------------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Verification Standard, 20 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER20A</td>
<td>As</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 19 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL19A</td>
<td>Ag</td>
<td>10</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>------------</td>
<td>----------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Standard, 19 Elements</td>
<td>Al</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 19 Elements</td>
<td>Al</td>
<td>100</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ga</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ag</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Standard, 18 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-JM-ME4A</td>
<td>Al</td>
<td>8</td>
<td>5% Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>La</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>1.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>1.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 18 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-JM-ME10A</td>
<td>Al</td>
<td>20</td>
<td>5% Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>La</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------</td>
<td>------------</td>
<td>-------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Verification Standard, 18 Elements</td>
<td></td>
<td></td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPVER18A</td>
<td>As</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Multi Element Standard, 18 Elements</td>
<td></td>
<td></td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td>ICPM002</td>
<td>Ag</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td>5% Nitric Acid 125ml</td>
<td>125ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Standard, 18 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MIX1-CYM</td>
<td>As</td>
<td>10</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Verification Standard, 17 Elements according to Test Method 6010</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER17A</td>
<td>Ag</td>
<td>10</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>60</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>REICP SPIK17A</td>
<td>Ag</td>
<td>25</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICP CAL17A</td>
<td>Al</td>
<td>10</td>
<td>5% Nitric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>REICPCAL17B</td>
<td>Al</td>
<td>10</td>
<td>5% Nitric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL17D</td>
<td>Ag</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL17E</td>
<td>Ag</td>
<td>20</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------</td>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 17 Elements according to Test Method 200.8</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL17F</td>
<td>Al 10</td>
<td></td>
<td>5% Nitric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Verification Standard, 16 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER16A</td>
<td>Ag 10</td>
<td></td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al 300</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba 100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr 20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu 20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb 20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se 50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ta 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Interference Standard, 16 Elements according to Test Method 05.2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF16A</td>
<td>Ag 10</td>
<td></td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Interference Standard, 16 Elements according to Test Method 200.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF16B</td>
<td>Ag</td>
<td>300</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>20000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 16 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL16A</td>
<td>Ag</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cs</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 16 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL16B</td>
<td>Al</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cs</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ga</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Verification Standard, 16 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER16B</td>
<td>Ag</td>
<td>10</td>
<td>Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 16 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-LAN16-100</td>
<td>Ce</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>La</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dy</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Er</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eu</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gd</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ho</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lu</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sc</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sm</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tb</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tm</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yb</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 15 Elements according to Test Method 200.8</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL15B</td>
<td>Al</td>
<td>10</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Interference Standard, 15 Elements according to Test Method 6010</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF15A</td>
<td>Ag</td>
<td>20</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>60</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Tuning Standard, 15 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE15A</td>
<td>B</td>
<td>10</td>
<td>Nitric Acid tr. Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ga</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sc</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Interference Standard, 15 Elements according to Test Method 200.7</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF15B</td>
<td>Ag</td>
<td>300</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>20000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Standard, 15 Elements</td>
<td>Al</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 15 Elements</td>
<td>Al</td>
<td>1000</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Verification Standard, 14 Elements</td>
<td>Ag</td>
<td>20</td>
<td>5% Nitric Acid tr. Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Al</td>
<td>500</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Cd</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Hg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>Se</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14A</td>
<td>V</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>B</td>
<td>100</td>
<td>Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Ge</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Hf</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Mo</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Nb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>P</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Re</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>S</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Si</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Ta</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14B</td>
<td>W</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Al</td>
<td>5</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>As</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Ba</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Cd</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Co</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Cr</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Cu</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>K</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Mn</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Mo</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Ni</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Pb</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Se</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14C</td>
<td>Sr</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------</td>
<td>------------</td>
<td>-------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 14 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL14D</td>
<td>Al</td>
<td>50</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 13 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL13A</td>
<td>As</td>
<td>10</td>
<td>2-5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ga</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 13 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL13B</td>
<td>Al</td>
<td>500</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------</td>
<td>------------</td>
<td>-----------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Standard, 13 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP13-MIX-100</td>
<td>Al</td>
<td>100</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 12 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP12MIX3A</td>
<td>Al</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 12 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-STL-136</td>
<td>Al</td>
<td>1000</td>
<td>2-5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 12 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP12-100-100</td>
<td>Ag</td>
<td>100</td>
<td>2-5% Nitric Acid tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
<td>------------</td>
<td>-------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Standard, 12 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP12-10-100</td>
<td>Be</td>
<td>10</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cs</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sc</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tm</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP12-102-100</td>
<td>Ag</td>
<td>10</td>
<td>2-5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP12-50-100</td>
<td>Be</td>
<td>50</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sc</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tb</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tm</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP12-KEF-100</td>
<td>B</td>
<td>10</td>
<td>2% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ge</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Re</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ta</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 12 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL12A</td>
<td>Ag</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 12 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICPMIX12-100</td>
<td>Bi</td>
<td>100</td>
<td>2% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ag</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Tuning Standard, 11 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE11A</td>
<td>Ba</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Verification Standard, 11 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER11A</td>
<td>Ag</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Verification Standard, 11 Elements according to Test Method 6020</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER11B</td>
<td>Ag</td>
<td>20</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 11 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MIX-CYM12</td>
<td>Ge</td>
<td>1000</td>
<td>3.5% Nitric Acid &amp; 0.5% Hydrofluoric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Hf</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ta</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Te</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zr</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Interference Standard, 11 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF11A</td>
<td>Ag</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 11 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP11-MIX-100</td>
<td>As</td>
<td>20</td>
<td>2% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>La</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sc</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Standard, 10 Elements</td>
<td>Ti</td>
<td>1000</td>
<td>5% Nitric Acid &amp; 1% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>ICP-10-1000-100</td>
<td>V</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 10 Elements</td>
<td>Au</td>
<td>10</td>
<td>10% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>ICP-STD3-100</td>
<td>Hf</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ir</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pt</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ru</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Te</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 10 Elements</td>
<td>Al</td>
<td>1000</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>ICP10-1000-100</td>
<td>B</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 10 Elements</td>
<td>P</td>
<td>10</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>ICP10-MIX-100</td>
<td>K</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>0.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>0.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>0.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>0.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICP10MIX1A</td>
<td>Se</td>
<td>40</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP10-MIX2-100</td>
<td>P</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>0.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>0.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>0.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>0.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP10-STATION-1</td>
<td>Al</td>
<td>2.5</td>
<td>1% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>2.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>2.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>2.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>2.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>2.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>2.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>1.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP10-STATION-2</td>
<td>Al</td>
<td>5</td>
<td>1% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>3.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 10 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL10A</td>
<td>Be</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sc</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tb</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Interference Standard, 10 Elements according to Test Method 6020</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF10A</td>
<td>Ag</td>
<td>5</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Spiking Standard, 10 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPSPIK10A</td>
<td>Ag</td>
<td>5</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 10 Elements according to Test Method 6010</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL10B</td>
<td>Ag</td>
<td>200</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 10 Elements according to Test Method 6010</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL10C</td>
<td>Al</td>
<td>1000</td>
<td>20% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 10 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL10D</td>
<td>Al</td>
<td>20</td>
<td>2% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 10 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE10A</td>
<td>Ba</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 10 Elements according to Test Method 200.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL10G</td>
<td>Ag</td>
<td>50</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------------</td>
<td>------------</td>
<td>-----------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Standard USP 232/233 Compliance 1, 10 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPUSP1</td>
<td>As</td>
<td>15</td>
<td>7% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>2500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>2500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Tuning Solution 5, 10 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE5</td>
<td>Ba</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Interference Standard, 9 Elements according to Test Method 6020</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF9A</td>
<td>Ag</td>
<td>10</td>
<td>5% Nitric Acid &amp; tr. Tartaric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 9 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICPMIX-9-100</td>
<td>Ag</td>
<td>1000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 9 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL10H</td>
<td>Be</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------</td>
<td>------------</td>
<td>-------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>REICPTUNE9A</td>
<td>Fe 10, K 10, La 10, Mg 5, Mn 5, P 10, S 50, Sc 10, Ti 10</td>
<td></td>
<td>Hydrochloric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPTUNE9B</td>
<td>Ba 10, Be 10, Ce 10, Co 10, In 10, Mg 10, Pb 10, Th 10, Ti 10</td>
<td></td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>ICP-WY-95</td>
<td>K 1000, Ca 500, P 400, Na 240, Mg 100, Fe 10, Zn 6, Cu 1, Mn 1</td>
<td></td>
<td>2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>ICP-MET-9-100</td>
<td>Cr 100, Pb 100, Mn 100, Cu 100, Ni 100, Cd 100, Sb 100, As 100, Fe 100</td>
<td></td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>ICP-TG-85</td>
<td>Ca 50, K 13, Mg 10, Na 10, Cu 0.6, Zn 0.6, Mn 0.6, Fe 0.6</td>
<td></td>
<td>0.1% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------</td>
<td>------------</td>
<td>-------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Interference Standard, 8 Elements according to Test Method 6010</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF8A</td>
<td>Be</td>
<td>50</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Spiking Standard, 8 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPSPIK8B</td>
<td>B</td>
<td>1000</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 8 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSCICPS002</td>
<td>Si</td>
<td>1000</td>
<td>5% Nitric Acid &amp; 1% Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hf</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ta</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 8 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL8A</td>
<td>Ge</td>
<td>10</td>
<td>Hydrochloric Acid &amp; tr. Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Hf</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ta</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 8 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MUL8</td>
<td>Al</td>
<td>100</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------------</td>
<td>------------</td>
<td>--------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Standard, 8 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MUL8-250ML</td>
<td>Ca</td>
<td>10000</td>
<td>2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 8 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL8B</td>
<td>Au</td>
<td>10</td>
<td>10% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ir</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pt</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Re</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ru</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Te</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 8 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL8C</td>
<td>Ag</td>
<td>200</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>8000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 8 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MIX8</td>
<td>Co</td>
<td>20</td>
<td>2% Nitric Acid tr. Hydrofluoric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 7 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICPMIX7-100</td>
<td>Ti</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Te</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Internal Standard, 7 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPI57A</td>
<td>Bi</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ga</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sc</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------</td>
<td>------------</td>
<td>-------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Internal Standard, 7 Elements</td>
<td>Bi</td>
<td>20</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPIS7B</td>
<td>Ga</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>In</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>Li</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>Sc</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>Tb</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>Y</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Internal Standard, 7 Elements</td>
<td>Bi</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>Ge</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>In</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>Li</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>Lu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>Sc</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7C</td>
<td>Tb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Spiking Standard, 7 Elements</td>
<td>Al</td>
<td>200</td>
<td>20% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPSPIK7A</td>
<td>As</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPSPIK7A</td>
<td>Ba</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPSPIK7A</td>
<td>Cr</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPSPIK7A</td>
<td>Sb</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPSPIK7A</td>
<td>Se</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPSPIK7A</td>
<td>V</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Internal Standard, 7 Elements according to Test Method 200.8</td>
<td>Bi</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPIS7D</td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7D</td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7D</td>
<td>Lu</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7D</td>
<td>Sc</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7D</td>
<td>Te</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7D</td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Internal Standard, 7 Elements according to Test Method 6020</td>
<td>Bi</td>
<td>10</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPIS7E</td>
<td>Ho</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7E</td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7E</td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7E</td>
<td>Sc</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7E</td>
<td>Tb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS7E</td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Verification Standard, 7 Elements</td>
<td>Ag</td>
<td>100</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPVER7A</td>
<td>Al</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER7A</td>
<td>B</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER7A</td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER7A</td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER7A</td>
<td>Na</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER7A</td>
<td>Si</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>REICPVER7B</td>
<td>Ag</td>
<td>50</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Al</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Multi Element Calibration Standard, 7 Elements according to Test Method 200.8 & 05.2

<table>
<thead>
<tr>
<th>REICPCAL7A</th>
<th>Ag</th>
<th>25</th>
<th>2% Nitric Acid</th>
<th>100ml</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>As</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Multi Element Calibration Standard, 7 Elements

<table>
<thead>
<tr>
<th>REICPCAL7B</th>
<th>Cr</th>
<th>10</th>
<th>2-5% Nitric Acid &amp; tr. Hydrofluoric Acid</th>
<th>100ml</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hf</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ir</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ta</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Multi Element Calibration Standard, 7 Elements

<table>
<thead>
<tr>
<th>REICPCAL7C</th>
<th>As</th>
<th>100</th>
<th>2-5% Nitric Acid</th>
<th>100ml</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Be</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Multi Element Standard, 7 Elements

<table>
<thead>
<tr>
<th>ICP7A20</th>
<th>Ag</th>
<th>50</th>
<th>5% Nitric Acid &amp; 0.2% Hydrofluoric Acid</th>
<th>100ml</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Al</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Multi Element Standard, 7 Elements

<table>
<thead>
<tr>
<th>ICP-MIX-CYM1</th>
<th>As</th>
<th>500</th>
<th>2% Nitric Acid</th>
<th>100ml</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pb</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Be</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>-----------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Tuning Standard, 6 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE6A</td>
<td>Ba</td>
<td>10</td>
<td>1% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 6 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL6A</td>
<td>Al</td>
<td>200</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 6 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL6B</td>
<td>Ba</td>
<td>500</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 6 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL6C</td>
<td>Au</td>
<td>100</td>
<td>10% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ir</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pt</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ru</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 6 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL6D</td>
<td>Ir</td>
<td>100</td>
<td>15% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Os</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pt</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ru</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 6 Elements according to Test Method 200.7</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL6E</td>
<td>Be</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard USP 232/233 Compliance, 6 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPUSP2</td>
<td>Ir</td>
<td>100</td>
<td>15% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Os</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pt</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ru</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element USP 232/233 Compliance 6 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPUSPIV</td>
<td>Ir 10</td>
<td>Os 10</td>
<td>15% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Pd 10</td>
<td>Pt 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh 10</td>
<td>Ru 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 6 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE7A</td>
<td>Ba 10</td>
<td>Ce 10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co 10</td>
<td>In 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li 10</td>
<td>U 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Internal Standard, 6 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPIS2</td>
<td>Bi 100</td>
<td>In 100</td>
<td>3% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Li 100</td>
<td>Sc 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tb 100</td>
<td>Y 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 6 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MUL06</td>
<td>Al 100</td>
<td>As 100</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cd 100</td>
<td>Cu 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe 100</td>
<td>Pb 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 5 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MS10042</td>
<td>Ce 10</td>
<td>Co 10</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Li 10</td>
<td>Tl 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 5 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STD-GLO-5-500</td>
<td>Al 1000</td>
<td>Ca 1000</td>
<td>6% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>K 1000</td>
<td>Mg 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na 1000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 5 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-VL-51</td>
<td>Mg 1500</td>
<td>Fe 100</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K 25</td>
<td>S 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------------</td>
<td>----------</td>
<td>------------</td>
<td>-------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Tuning Solution, 5 Elements</td>
<td>Ca</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPTUNE6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 6020</td>
<td>Ca</td>
<td>2000</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPCALSA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Interference Standard, 5 Elements according to Test Method 200.7</td>
<td>Al</td>
<td>1200</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPINTF5A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>6000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>3000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 200.7</td>
<td>Be</td>
<td>50</td>
<td>2% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPCALSD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cd</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 200.7</td>
<td>Ba</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPCALSE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 200.7</td>
<td>Ag</td>
<td>50</td>
<td>5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPCALSF</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 5 Elements according to Test Method 200.8 &amp; 05.2</td>
<td>Be</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPTUNE5C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Ca</td>
<td>1000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>REICPCALSH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Ca</td>
<td>500</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Fe</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>K</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Mg</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Na</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Verification Standard, 5 Elements</td>
<td>Be</td>
<td>10</td>
<td>2-5% Nitric Acid tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Multi Element Verification Standard, 5 Elements</td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Verification Standard, 5 Elements</td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Verification Standard, 5 Elements</td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Verification Standard, 5 Elements</td>
<td>U</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Ca</td>
<td>1000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Fe</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Li</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Ti</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Y</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 5 Elements</td>
<td>Ce</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 5 Elements</td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 5 Elements</td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 5 Elements</td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 5 Elements</td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Al</td>
<td>1000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Cd</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Pb</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Se</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Ti</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>As</td>
<td>500</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Cd</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Pb</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Se</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Ti</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>As</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Cd</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Pb</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Se</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements</td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 200.7</td>
<td>K</td>
<td>2000</td>
<td>5% Nitric Acid &amp; 1% Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 200.7</td>
<td>Li</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 200.7</td>
<td>Mo</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 200.7</td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 200.7</td>
<td>Ti</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 5 Elements according to Test Method 200.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL5P</td>
<td>Al</td>
<td>3000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>15000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>12500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>7500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>2500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Internal Standard, 5 Elements according to Test Method 200.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICP15S</td>
<td>Bi</td>
<td>20</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sc</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tb</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 5 Elements according to Test Method 200.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNESB</td>
<td>Be</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 5 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICPM003</td>
<td>K</td>
<td>500</td>
<td>2% Nitric Acid</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 5 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MIX2</td>
<td>Sc</td>
<td>100</td>
<td>2% Nitric Acid</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bi</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 5 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE1</td>
<td>Ce</td>
<td></td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 5 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNES1A</td>
<td>Ce</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 5 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICPMIX5-100</td>
<td>Ir</td>
<td>100</td>
<td>5% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pt</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ru</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Standard, 5 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MIX3-CYM</td>
<td>Ca</td>
<td>1000</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 4 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICPMIX4-100</td>
<td>Pd</td>
<td>100</td>
<td>10% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Pt</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 4 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4A</td>
<td>As</td>
<td>100</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 4 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4B</td>
<td>Ca</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 4 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE4A</td>
<td>Ce</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 4 Elements according to Test Method 200.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4R</td>
<td>Ca</td>
<td>1000</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 4 Elements according to Test Method 200.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4C</td>
<td>Ag</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ba</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 4 Elements according to Test Method 200.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4D</td>
<td>Ca</td>
<td>10000</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Interference Standard, 4 Elements according to Test Method 6010</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF4A</td>
<td>Al</td>
<td>5000</td>
<td>20% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>REICPTUNE4C</td>
<td>Co</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>In</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPVER4B</td>
<td>As</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4E</td>
<td>Ca</td>
<td>500</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4F</td>
<td>Ba</td>
<td>1000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4G</td>
<td>Cd</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cu</td>
<td>800</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ni</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4H</td>
<td>Ca</td>
<td>10000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4I</td>
<td>Ca</td>
<td>1000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4J</td>
<td>Ca</td>
<td>5000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL4K</td>
<td>Mo</td>
<td>100</td>
<td>5% Nitric Acid &amp; 1% Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF4C</td>
<td>Al</td>
<td>5000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fe</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>---------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 4 Elements according to Test Method 200.7</td>
<td>Ce</td>
<td>200</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 4 Elements according to Test Method 200.7</td>
<td>B</td>
<td>500</td>
<td>5% Nitric Acid &amp; 1% Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>230</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 4 Elements</td>
<td>Ce</td>
<td>10</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 4 Elements</td>
<td>Sn</td>
<td>1</td>
<td>7% Hydrochloric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Au</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Solution 2, 4 Elements</td>
<td>Ce</td>
<td>10</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 4 Elements</td>
<td>Mo</td>
<td>100</td>
<td>5% Nitric Acid &amp; 0.5% Hydrofluoric Acid</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 4 Elements</td>
<td>Li</td>
<td>10</td>
<td>2% Nitric Acid</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ce</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 4 Elements</td>
<td>Mo</td>
<td>10</td>
<td>5% Nitric Acid &amp; 0.5% Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ti</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 4 Elements</td>
<td>Na</td>
<td>25</td>
<td>2.5% Glucose Monohydrate</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 4 Elements</td>
<td>K</td>
<td>200</td>
<td>10% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------</td>
<td>------------</td>
<td>-------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Multi Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICPMIX3-100</td>
<td>Pt</td>
<td>100</td>
<td>10% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Interference Standard, 3 Elements according to Test Method 6010</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPINTF3A</td>
<td>Ba</td>
<td>50</td>
<td>20% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 3 Elements according to Test Method 200.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL3A</td>
<td>As</td>
<td>500</td>
<td>2% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mo</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL3B</td>
<td>Au</td>
<td>100</td>
<td>10% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Pd</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pt</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Tuning Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE3A</td>
<td>Ce</td>
<td>10</td>
<td>1% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Co</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Calibration Standard, 3 Elements according to Test Method 200.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL3C</td>
<td>Al</td>
<td>1000</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-PS-325M</td>
<td>Ga</td>
<td>50</td>
<td>5% Nitric Acid &amp; 0.5% Hydrochloric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Ir</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-HR-35</td>
<td>Ag</td>
<td>100</td>
<td>2-5% Nitric Acid &amp; tr. Hydrofluoric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MET-3-100</td>
<td>Hg</td>
<td>100</td>
<td>2% Hydrochloric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Ca</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-MIX10</td>
<td>Co</td>
<td>20</td>
<td>2% Nitric Acid</td>
<td>125ml</td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-PS325M</td>
<td>Ga</td>
<td>50</td>
<td>5% Nitric Acid &amp; 0.5% Hydrochloric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Ir</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rh</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-PC-35A</td>
<td>Ag</td>
<td>10</td>
<td>2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>----------</td>
<td>------------</td>
<td>-------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Multi Element Standard, 3 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSICP001</td>
<td>As</td>
<td>100</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 3 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MXSTD301</td>
<td>Chloride</td>
<td>1000</td>
<td>H2O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Sulphate</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nitrate</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 3 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP3-100-100</td>
<td>K</td>
<td>500</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mg</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 2 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP2MIX-100</td>
<td>Fe</td>
<td>500</td>
<td>2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mn</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 2 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP2MIX2-100</td>
<td>Cd</td>
<td>100</td>
<td>2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 2 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEICP2</td>
<td>Si</td>
<td>100</td>
<td>5% Nitric Acid &amp; 1% Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Tuning Standard, 2 Elements according to Test Method 200.7</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPTUNE2A</td>
<td>Cu</td>
<td>10</td>
<td>5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Calibration Standard, 2 Elements according to Test Method 200.8</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REICPCAL2A</td>
<td>Mo</td>
<td>20</td>
<td>Nitric Acid tr. Hydrofluoric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Sb</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Multi Element Standard, 2 Elements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP-HR-25</td>
<td>S</td>
<td>100</td>
<td>H2O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Si</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Ion Chromatography Standards

These standards are prepared, tested, certified and verified by following the exact same regime as already presented for ICP-MS Standards. The raw material specifications are in most cases identical to the materials used for ICP-MS. Additionally, the elemental cations are also analysed by ICP-MS. All results are verified on a state of the art Ion Chromatograph, which is calibrated using high purity ISO Guide 34 accredited standards, similar in concentration to the products listed below.

Controlled Environment
Reagecon’s standards are manufactured in a highly controlled clean room environment using:

• High purity starting materials
• Ultra-pure water, specially treated for Mass Spectroscopy Standards
• High purity matrix materials
• Pre-leached and pre-cleaned bottles

Options
Reagecon offers more options than almost any other manufacturer.

• At least 18 anion and 18 cation standards
• Many multi-element mix’s
• Concentration options
• Pack size options
• Customised Standards

All at the highest quality and at an affordable price.

Verification of Raw Materials
All metal raw materials are assayed by titration and ICP-MS prior to manufacture. Separate CRM’s are used to control or calibrate the titration and ICP-MS respectively. This dual process enables the assays to be cross-checked against each other, provides two layers of traceability and quantifies the combined level of impurities in the starting material. The product is then manufactured gravimetrically using the mass balance approach: 100% - sum of all impurities (w/w). The assay of the final product is certified using the gravimetric result corrected for density. Prior to bottling, the finished product is again tested and verified using an ICP-MS instrument calibrated with appropriate CRM’s and a state of the art Ion Chromatograph.

Certification
Reagecon’s Ion Chromatography Standards are prepared gravimetrically on a weight/weight basis from the purest available raw materials on the market. Both solute and solvent are weighed on balances calibrated by Reagecon’s engineers using OIML traceable weights. Reagecon holds ISO/IEC 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025.
Traceability

The content of the starting material for each single element or multi-element standard is established by titration. The resulting analysis is directly traceable to a relevant NIST standard where available. All of the resulting uncertainties of measurement are calculated according to EURACHEM/CITAC guidelines and reported as expanded uncertainties at the 95% confidence level. Reagecon holds ISO/IEC 17025 (INAB Ref:264T) accreditation for several classes of titrimetric analysis relevant to the assay of Raw Materials, for the manufacture of Ion Chromatography Standards.

Elemental Metallic Impurities

All Reagecon Standards are manufactured from the purest available raw materials. For cations a lot of the starting materials are metals of > 99.999% purity. Several others are at least 99.995% pure. Most of the remaining metals or salts of metals are at least 99.99% pure. The level of impurities are quantified using ICP-MS and are measured and reported both on the starting materials and on the finished product. All of Reagecon’s Ion Chromatography standards are manufactured in a Class 10,000 (ISO 7) clean room environment.

Final Assay & Result

Each batch of Reagecon’s finalised IC standards are subjected to an assay on the ICP-MS or IC prior to bottling. This assay verifies the target element assay and verifies that the level of impurities have not changed significantly during the manufacturing process. The results are then reported and certified in mg/Kg and mg/L on the basis of weight and the density measurement of the standard. All of the volumetric, titrimetric and gravimetric functions are carried out under a highly regulated temperature regime, using equipment calibrated by Reagecon’s engineers. Reagecon holds ISO/IEC 17025 accreditation for temperature calibration in the range of -196 to +1200°C (INAB Ref:265C). The density measurements are also highly temperature dependent and are carried out in Reagecon’s specialised Density Laboratory. Reagecon is ISO/IEC 17025 (INAB Ref:264T) Accredited, for density measurement using an Oscillating U-Tube Method in accordance with the ASTM D4052 method. The company is an extensive producer of density standards and the range is presented in our compendium of Physical and Chemical Standards.

Anion Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICAU35</td>
<td>CH₃COO⁻</td>
<td>Sodium Acetate</td>
<td>H₂O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAT35</td>
<td>CH₃COO⁻</td>
<td>Sodium Acetate</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS35</td>
<td>CH₃COO⁻</td>
<td>Sodium Acetate</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS3301</td>
<td>BrO₃⁻</td>
<td>Potassium Bromate</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS3301-50ml</td>
<td>BrO₃⁻</td>
<td>Potassium Bromate</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>50ml</td>
</tr>
<tr>
<td>ICAS3305</td>
<td>BrO₃⁻</td>
<td>Potassium Bromate</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICAU01</td>
<td>Br⁻</td>
<td>KBr</td>
<td>H₂O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAT01</td>
<td>Br⁻</td>
<td>KBr</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS01</td>
<td>Br⁻</td>
<td>KBr</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS01-50ml</td>
<td>Br⁻</td>
<td>KBr</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>50ml</td>
</tr>
<tr>
<td>ICAB01</td>
<td>Br⁻</td>
<td>KBr</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICACL001</td>
<td>ClO₃⁻</td>
<td>Potassium Chlorate</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICACL001-50ml</td>
<td>ClO₃⁻</td>
<td>Potassium Chlorate</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>50ml</td>
</tr>
</tbody>
</table>
# Anion Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chloride</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU02</td>
<td>Cl&lt;sup&gt;-&lt;/sup&gt;</td>
<td>KCl</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU02</td>
<td>Cl&lt;sup&gt;-&lt;/sup&gt;</td>
<td>KCl</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU02</td>
<td>Cl&lt;sup&gt;-&lt;/sup&gt;</td>
<td>KCl</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU02</td>
<td>Cl&lt;sup&gt;-&lt;/sup&gt;</td>
<td>KCl</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICAU02</td>
<td>Cl&lt;sup&gt;-&lt;/sup&gt;</td>
<td>KCl</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>10mg/ml (10,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Chlorite</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAS21</td>
<td>ClO&lt;sub&gt;2&lt;/sub&gt;&lt;sup&gt;-&lt;/sup&gt;</td>
<td>Sodium Chlorite</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS21</td>
<td>ClO&lt;sub&gt;2&lt;/sub&gt;&lt;sup&gt;-&lt;/sup&gt;</td>
<td>Sodium Chlorite</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>50ml</td>
</tr>
<tr>
<td><strong>Chromate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU29</td>
<td>CrO&lt;sub&gt;4&lt;/sub&gt;&lt;sup&gt;2-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;Cr&lt;sub&gt;2&lt;/sub&gt;O&lt;sub&gt;7&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.002mg/ml (2ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU29</td>
<td>CrO&lt;sub&gt;4&lt;/sub&gt;&lt;sup&gt;2-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;Cr&lt;sub&gt;2&lt;/sub&gt;O&lt;sub&gt;7&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU29</td>
<td>CrO&lt;sub&gt;4&lt;/sub&gt;&lt;sup&gt;2-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;Cr&lt;sub&gt;2&lt;/sub&gt;O&lt;sub&gt;7&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU29</td>
<td>CrO&lt;sub&gt;4&lt;/sub&gt;&lt;sup&gt;2-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;Cr&lt;sub&gt;2&lt;/sub&gt;O&lt;sub&gt;7&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU29</td>
<td>CrO&lt;sub&gt;4&lt;/sub&gt;&lt;sup&gt;2-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;Cr&lt;sub&gt;2&lt;/sub&gt;O&lt;sub&gt;7&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Cyanide</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU08</td>
<td>CN&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NaCN</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.0001mg/ml (0.1ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU08</td>
<td>CN&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NaCN</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU08</td>
<td>CN&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NaCN</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU08</td>
<td>CN&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NaCN</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Fluoride</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU03</td>
<td>F&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NaF</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU03</td>
<td>F&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NaF</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU03</td>
<td>F&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NaF</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.5mg/ml (500ppm)</td>
<td>1L</td>
</tr>
<tr>
<td>ICAU03</td>
<td>F&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NaF</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>250ml</td>
</tr>
<tr>
<td>ICAU03</td>
<td>F&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NaF</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Formate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU34</td>
<td>HCOO&lt;sup&gt;-&lt;/sup&gt;</td>
<td>Sodium Formate</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU34</td>
<td>HCOO&lt;sup&gt;-&lt;/sup&gt;</td>
<td>Sodium Formate</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU34</td>
<td>HCOO&lt;sup&gt;-&lt;/sup&gt;</td>
<td>Sodium Formate</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU34</td>
<td>HCOO&lt;sup&gt;-&lt;/sup&gt;</td>
<td>Sodium Formate</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Iodide</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU40</td>
<td>I&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;I</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU40</td>
<td>I&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;I</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU40</td>
<td>I&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;I</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU40</td>
<td>I&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;I</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Nitrate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU04</td>
<td>NO&lt;sub&gt;3&lt;/sub&gt;&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU04</td>
<td>NO&lt;sub&gt;3&lt;/sub&gt;&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU04</td>
<td>NO&lt;sub&gt;3&lt;/sub&gt;&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAU04</td>
<td>NO&lt;sub&gt;3&lt;/sub&gt;&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>250ml</td>
</tr>
<tr>
<td>ICAU04</td>
<td>NO&lt;sub&gt;3&lt;/sub&gt;&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICAU04</td>
<td>NO&lt;sub&gt;3&lt;/sub&gt;&lt;sup&gt;-&lt;/sup&gt;</td>
<td>NH&lt;sub&gt;4&lt;/sub&gt;NO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>H&lt;sub&gt;2&lt;/sub&gt;O</td>
<td>10mg/ml (10,000ppm)</td>
<td>500ml</td>
</tr>
</tbody>
</table>
## Anion Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nitrite</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA11305</td>
<td>NO$_2^-$</td>
<td>NaNO$_2$</td>
<td>H$_2$O</td>
<td>0.03mg/ml (30ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICAU11</td>
<td>NO$_2^-$</td>
<td>NaNO$_2$</td>
<td>H$_2$O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS151005</td>
<td>NO$_2^-$</td>
<td>NaNO$_2$</td>
<td>H$_2$O</td>
<td>0.1mg/ml (100ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICAS11</td>
<td>NO$_2^-$</td>
<td>NaNO$_2$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>1L</td>
</tr>
<tr>
<td>ICAS11-B</td>
<td>NO$_2^-$</td>
<td>NaNO$_2$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>250ml</td>
</tr>
<tr>
<td>ICAS11-10000</td>
<td>NO$_2^-$</td>
<td>NaNO$_2$</td>
<td>H$_2$O</td>
<td>10mg/ml (10,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Oxalate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU13</td>
<td>(COO)$_2^{2-}$</td>
<td>K$_2$C$_2$O$_4$</td>
<td>H$_2$O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAT13</td>
<td>(COO)$_2^{2-}$</td>
<td>K$_2$C$_2$O$_4$</td>
<td>H$_2$O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS13</td>
<td>(COO)$_2^{2-}$</td>
<td>K$_2$C$_2$O$_4$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAB13</td>
<td>(COO)$_2^{2-}$</td>
<td>K$_2$C$_2$O$_4$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Phosphate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU05</td>
<td>PO$_4^{3-}$</td>
<td>NH$_4$H$_2$PO$_4$</td>
<td>H$_2$O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAT05</td>
<td>PO$_4^{3-}$</td>
<td>NH$_4$H$_2$PO$_4$</td>
<td>H$_2$O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS05</td>
<td>PO$_4^{3-}$</td>
<td>NH$_4$H$_2$PO$_4$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS05-B</td>
<td>PO$_4^{3-}$</td>
<td>NH$_4$H$_2$PO$_4$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>250ml</td>
</tr>
<tr>
<td>ICAB05</td>
<td>PO$_4^{3-}$</td>
<td>NH$_4$H$_2$PO$_4$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICAS05-10000</td>
<td>PO$_4^{3-}$</td>
<td>NH$_4$H$_2$PO$_4$</td>
<td>H$_2$O</td>
<td>10mg/ml (10,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Silica</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU12</td>
<td>SiO$_2$</td>
<td>Na$_2$O$_3$Si</td>
<td>H$_2$O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAT12</td>
<td>SiO$_2$</td>
<td>Na$_2$O$_3$Si</td>
<td>H$_2$O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS12</td>
<td>SiO$_2$</td>
<td>Na$_2$O$_3$Si</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAB12</td>
<td>SiO$_2$</td>
<td>Na$_2$O$_3$Si</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICAB12-1L</td>
<td>SiO$_2$</td>
<td>Na$_2$O$_3$Si</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>1L</td>
</tr>
<tr>
<td>ICAD12-1L</td>
<td>SiO$_2$</td>
<td>Na$_2$O$_3$Si</td>
<td>H$_2$O</td>
<td>0.01mg/ml (10ppb)</td>
<td>1L</td>
</tr>
<tr>
<td><strong>Sulphate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU06</td>
<td>SO$_4^{2-}$</td>
<td>(NH$_4$)$_2$SO$_4$</td>
<td>H$_2$O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAT06</td>
<td>SO$_4^{2-}$</td>
<td>(NH$_4$)$_2$SO$_4$</td>
<td>H$_2$O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS0650</td>
<td>SO$_4^{2-}$</td>
<td>(NH$_4$)$_2$SO$_4$</td>
<td>H$_2$O</td>
<td>0.05mg/ml (50ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICAS06</td>
<td>SO$_4^{2-}$</td>
<td>(NH$_4$)$_2$SO$_4$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAB06</td>
<td>SO$_4^{2-}$</td>
<td>(NH$_4$)$_2$SO$_4$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICAS0661</td>
<td>SO$_4^{2-}$</td>
<td>(NH$_4$)$_2$SO$_4$</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>1L</td>
</tr>
<tr>
<td><strong>Tartrate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAU36</td>
<td>(CHOH)$_2$(COO)$_2^{2-}$</td>
<td>Tartaric Acid</td>
<td>H$_2$O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAT36</td>
<td>(CHOH)$_2$(COO)$_2^{2-}$</td>
<td>Tartaric Acid</td>
<td>H$_2$O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAS36</td>
<td>(CHOH)$_2$(COO)$_2^{2-}$</td>
<td>Tartaric Acid</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICAB36</td>
<td>(CHOH)$_2$(COO)$_2^{2-}$</td>
<td>Tartaric Acid</td>
<td>H$_2$O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Ion</td>
<td>Starting Material</td>
<td>Matrix</td>
<td>Concentration</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>-----</td>
<td>-------------------</td>
<td>--------</td>
<td>---------------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICCU06</td>
<td>Al³⁺</td>
<td>Al(NO₃)₃</td>
<td>H₂O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCU06</td>
<td>Al³⁺</td>
<td>Al(NO₃)₃</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS06</td>
<td>Al³⁺</td>
<td>Al(NO₃)₃</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB06</td>
<td>Al³⁺</td>
<td>Al(NO₃)₃</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
</tbody>
</table>

**Ammonium**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU01</td>
<td>NH₄⁺</td>
<td>NH₄Cl</td>
<td>H₂O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCU01</td>
<td>NH₄⁺</td>
<td>NH₄Cl</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS01</td>
<td>NH₄⁺</td>
<td>NH₄Cl</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB01</td>
<td>NH₄⁺</td>
<td>NH₄Cl</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICCS01-10000</td>
<td>NH₄⁺</td>
<td>NH₄Cl</td>
<td>H₂O</td>
<td>10mg/ml (10,000ppm)</td>
<td>500ml</td>
</tr>
</tbody>
</table>

**Barium**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU44</td>
<td>Ba²⁺</td>
<td>Ba(NO₃)₂</td>
<td>H₂O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICTT44</td>
<td>Ba²⁺</td>
<td>Ba(NO₃)₂</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS44</td>
<td>Ba²⁺</td>
<td>Ba(NO₃)₂</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB44</td>
<td>Ba²⁺</td>
<td>Ba(NO₃)₂</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
</tbody>
</table>

**Cadmium**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU09</td>
<td>Cd²⁺</td>
<td>Cd Metal</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>ICCS09</td>
<td>Cd²⁺</td>
<td>Cd Metal</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>ICCB09</td>
<td>Cd²⁺</td>
<td>Cd Metal</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
</tbody>
</table>

**Calcium**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU08</td>
<td>Ca²⁺</td>
<td>Ca(NO₃)₂</td>
<td>H₂O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICTT08</td>
<td>Ca²⁺</td>
<td>Ca(NO₃)₂</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS08</td>
<td>Ca²⁺</td>
<td>Ca(NO₃)₂</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB08</td>
<td>Ca²⁺</td>
<td>Ca(NO₃)₂</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICCCA01</td>
<td>Ca²⁺</td>
<td>Ca(NO₃)₂</td>
<td>H₂O</td>
<td>1.5mg/ml (1,500ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCCA05</td>
<td>Ca²⁺</td>
<td>Ca(NO₃)₂</td>
<td>H₂O</td>
<td>1.5mg/ml (1,500ppm)</td>
<td>500ml</td>
</tr>
</tbody>
</table>

**Cesium**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU91</td>
<td>Cs⁺</td>
<td>CsNO₃</td>
<td>H₂O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICTT91</td>
<td>Cs⁺</td>
<td>CsNO₃</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS91</td>
<td>Cs⁺</td>
<td>CsNO₃</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB91</td>
<td>Cs⁺</td>
<td>CsNO₃</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
</tbody>
</table>

**Cobalt**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU15</td>
<td>Co²⁺</td>
<td>Co Metal</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>ICCS15</td>
<td>Co²⁺</td>
<td>Co Metal</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>ICCB15</td>
<td>Co²⁺</td>
<td>Co Metal</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>ICCS95</td>
<td>Co²⁺</td>
<td>Co Metal</td>
<td></td>
<td>0.5% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
</tbody>
</table>

**Copper**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU16</td>
<td>Cu²⁺</td>
<td>Cu Metal</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>ICCS16</td>
<td>Cu²⁺</td>
<td>Cu Metal</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>ICCB16</td>
<td>Cu²⁺</td>
<td>Cu Metal</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
</tbody>
</table>

**Iron**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU12</td>
<td>Fe³⁺</td>
<td>Fe(NO₃)₃</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>ICTT12</td>
<td>Fe³⁺</td>
<td>Fe(NO₃)₃</td>
<td></td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS12</td>
<td>Fe³⁺</td>
<td>Fe(NO₃)₃</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>ICCB12</td>
<td>Fe³⁺</td>
<td>Fe(NO₃)₃</td>
<td></td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
</tr>
<tr>
<td>Product No.</td>
<td>Ion</td>
<td>Starting Material</td>
<td>Matrix</td>
<td>Concentration</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>-------</td>
<td>-------------------</td>
<td>------------</td>
<td>------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Lead</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCU19</td>
<td>Pb²⁺</td>
<td>Pb(NO₃)₂</td>
<td>0.005% HNO₃</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS19</td>
<td>Pb²⁺</td>
<td>Pb(NO₃)₂</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB19</td>
<td>Pb²⁺</td>
<td>Pb(NO₃)₂</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td><strong>Lithium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCU02</td>
<td>Li⁺</td>
<td>LiNO₃</td>
<td>0.005% HNO₃</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCT02</td>
<td>Li⁺</td>
<td>LiNO₃</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS02</td>
<td>Li⁺</td>
<td>LiNO₃</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB02</td>
<td>Li⁺</td>
<td>LiNO₃</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Magnesium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCU07</td>
<td>Mg²⁺</td>
<td>Mg(NO₃)₂</td>
<td>H₂O</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCT07</td>
<td>Mg²⁺</td>
<td>Mg(NO₃)₂</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCM01</td>
<td>Mg²⁺</td>
<td>Mg(NO₃)₂</td>
<td>H₂O</td>
<td>0.5mg/ml (500ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCM05</td>
<td>Mg²⁺</td>
<td>Mg(NO₃)₂</td>
<td>H₂O</td>
<td>0.5mg/ml (500ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICCS07</td>
<td>Mg²⁺</td>
<td>Mg(NO₃)₂</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB07</td>
<td>Mg²⁺</td>
<td>Mg(NO₃)₂</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Manganese</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCU11</td>
<td>Mn²⁺</td>
<td>Mn Metal</td>
<td>0.005% HNO₃</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCT11</td>
<td>Mn²⁺</td>
<td>Mn Metal</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS11</td>
<td>Mn²⁺</td>
<td>Mn Metal</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB11</td>
<td>Mn²⁺</td>
<td>Mn Metal</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Nickel</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCU14</td>
<td>Ni²⁺</td>
<td>Ni Metal</td>
<td>0.005% HNO₃</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS14</td>
<td>Ni²⁺</td>
<td>Ni Metal</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB14</td>
<td>Ni²⁺</td>
<td>Ni Metal</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICCS96</td>
<td>Ni²⁺</td>
<td>Ni Metal</td>
<td>0.5% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td><strong>Potassium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCU03</td>
<td>K⁺</td>
<td>KNO₃</td>
<td>0.005% HNO₃</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCT03</td>
<td>K⁺</td>
<td>KNO₃</td>
<td>H₂O</td>
<td>0.2mg/ml (200 ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCK01</td>
<td>K⁺</td>
<td>KNO₃</td>
<td>0.005% HNO₃</td>
<td>0.2mg/ml (200 ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCK05</td>
<td>K⁺</td>
<td>KNO₃</td>
<td>0.005% HNO₃</td>
<td>0.2mg/ml (200 ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICCS03</td>
<td>K⁺</td>
<td>KNO₃</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB03</td>
<td>K⁺</td>
<td>KNO₃</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICCKB03</td>
<td>K⁺</td>
<td>KNO₃</td>
<td>H₂O</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td><strong>Rubidium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCU92</td>
<td>Rb⁺</td>
<td>RbNO₃</td>
<td>0.005% HNO₃</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS92</td>
<td>Rb⁺</td>
<td>RbNO₃</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB92</td>
<td>Rb⁺</td>
<td>RbNO₃</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td><strong>Sodium</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCU04</td>
<td>Na⁺</td>
<td>NaNO₃</td>
<td>0.005% HNO₃</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCT04</td>
<td>Na⁺</td>
<td>NaNO₃</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCNA01</td>
<td>Na⁺</td>
<td>NaNO₃</td>
<td>0.005% HNO₃</td>
<td>0.5mg/ml (500ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCNA05</td>
<td>Na⁺</td>
<td>NaNO₃</td>
<td>0.005% HNO₃</td>
<td>0.5mg/ml (500ppm)</td>
<td>500ml</td>
</tr>
<tr>
<td>ICCS04</td>
<td>Na⁺</td>
<td>NaNO₃</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB04</td>
<td>Na⁺</td>
<td>NaNO₃</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
</tbody>
</table>
### IC Multi-Element Standards

#### IC Multi-Element Standard, 9 Elements

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICU43</td>
<td>Sr²⁺</td>
<td>Sr(NO₃)₂</td>
<td>0.005% HNO₃</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICT43</td>
<td>Sr²⁺</td>
<td>Sr(NO₃)₂</td>
<td>H₂O</td>
<td>0.2mg/ml (200ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS43</td>
<td>Sr²⁺</td>
<td>Sr(NO₃)₂</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB43</td>
<td>Sr²⁺</td>
<td>Sr(NO₃)₂</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
</tbody>
</table>

#### IC Multi-Element Standard, 8 Elements

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Ion</th>
<th>Starting Material</th>
<th>Matrix</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU33</td>
<td>Zn²⁺</td>
<td>Zn Metal</td>
<td>0.005% HNO₃</td>
<td>0.1mg/ml (100ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS33</td>
<td>Zn²⁺</td>
<td>Zn Metal</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB33</td>
<td>Zn²⁺</td>
<td>Zn Metal</td>
<td>0.005% HNO₃</td>
<td>1mg/ml (1,000ppm)</td>
<td>500ml</td>
</tr>
</tbody>
</table>

#### IC Multi-Element Standard, 8 Elements

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICCU43</td>
<td>Sr²⁺</td>
<td>100</td>
<td>H₂O, tr. HNO₃</td>
<td>100ml</td>
</tr>
<tr>
<td>ICT43</td>
<td>Sr²⁺</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS43</td>
<td>Sr²⁺</td>
<td>100</td>
<td>0.005% HNO₃</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB43</td>
<td>Sr²⁺</td>
<td>100</td>
<td>0.005% HNO₃</td>
<td>100ml</td>
</tr>
</tbody>
</table>

#### IC Multi-Element Standard, 8 Elements

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICU43</td>
<td>Sr²⁺</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>ICT43</td>
<td>Sr²⁺</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCS43</td>
<td>Sr²⁺</td>
<td>100</td>
<td>0.005% HNO₃</td>
<td>100ml</td>
</tr>
<tr>
<td>ICCB43</td>
<td>Sr²⁺</td>
<td>100</td>
<td>0.005% HNO₃</td>
<td>100ml</td>
</tr>
</tbody>
</table>

### Strontium

**ICCU43** Sr²⁺ Sr(NO₃)₂ 0.005% HNO₃ 0.1mg/ml (100ppm) 100ml
**ICCT43** Sr²⁺ Sr(NO₃)₂ H₂O 0.2mg/ml (200ppm) 100ml
**ICCS43** Sr²⁺ Sr(NO₃)₂ 0.005% HNO₃ 1mg/ml (1,000ppm) 100ml
**ICCB43** Sr²⁺ Sr(NO₃)₂ 0.005% HNO₃ 1mg/ml (1,000ppm) 500ml

### Zinc

**ICCU33** Zn²⁺ Zn Metal 0.005% HNO₃ 0.1mg/ml (100ppm) 100ml
**ICCS33** Zn²⁺ Zn Metal 0.005% HNO₃ 1mg/ml (1,000ppm) 100ml
**ICCB33** Zn²⁺ Zn Metal 0.005% HNO₃ 1mg/ml (1,000ppm) 500ml
<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICA7MIX10B</td>
<td>F</td>
<td>1.5</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7MIX1B</td>
<td>F</td>
<td>0.08</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>0.08</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>0.08</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>0.015</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>0.015</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄</td>
<td>0.015</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>0.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7MIX2B</td>
<td>F</td>
<td>0.02</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>0.02</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>0.02</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>0.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>0.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄</td>
<td>0.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>0.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7MIX3B</td>
<td>F</td>
<td>0.04</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>0.04</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>0.04</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>0.04</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>0.04</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄</td>
<td>0.04</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>0.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7MIX4B</td>
<td>F</td>
<td>0.06</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>0.06</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>0.06</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>0.07</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>0.07</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄</td>
<td>0.07</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICA7MIX5B</td>
<td>F</td>
<td>0.08</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>0.08</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>0.08</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>0.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>0.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄⁺</td>
<td>0.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7MIX6B</td>
<td>F</td>
<td>0.15</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>0.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>0.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄⁺</td>
<td>0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7MIX7B</td>
<td>F</td>
<td>0.3</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄⁺</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7MIX8B</td>
<td>F</td>
<td>0.4</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>0.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>0.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄⁺</td>
<td>0.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7MIX9B</td>
<td>F</td>
<td>0.75</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>0.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>0.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CrO₄⁺</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>55</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICA7-MIX1-500</td>
<td>F</td>
<td>1000</td>
<td>H₂O</td>
<td>1L</td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-MIX1</td>
<td>F</td>
<td>25</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-DX-711</td>
<td>F</td>
<td>20</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICMIX-7-100</td>
<td>Br</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-NHS-7</td>
<td>Na⁺</td>
<td>2500</td>
<td>5% HNO₃</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zn²⁺</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Al³⁺</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hg²⁺</td>
<td>0.05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICA7-MIX-CYM-1000ml</td>
<td>F</td>
<td>2</td>
<td>H₂O</td>
<td>1L</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7-MIX-CYM-500ml</td>
<td>F</td>
<td>2</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-DX-721</td>
<td>PO₄³⁻</td>
<td>200</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7-100-75</td>
<td>Cl⁻</td>
<td>100</td>
<td>H₂O</td>
<td>75ml</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7-50-100</td>
<td>F</td>
<td>50</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICA7-50-500</td>
<td>F</td>
<td>50</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7-CYM-100</td>
<td>Cl</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA7-CYM-250</td>
<td>Cl</td>
<td>1000</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-ENV-6-5</td>
<td>F</td>
<td>100</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICASP725</td>
<td>F</td>
<td>10</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td>ICASS07</td>
<td>Br⁻</td>
<td>10</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-GLO-7-100</td>
<td>Cl⁻</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-SYN-7</td>
<td>Cl⁻</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-LIS-601</td>
<td>F</td>
<td>50</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-MIX3</td>
<td>F</td>
<td>100</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td>IC-GLO-6-500</td>
<td>Br</td>
<td>1000</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-MIX4</td>
<td>Li⁺</td>
<td>20</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-LGC-6-100</td>
<td>F⁻</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-10PPM-6</td>
<td>F⁻</td>
<td>10</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICC-DX-611</td>
<td>Ca²⁺</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li⁺</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-BMS-65</td>
<td>NO₃⁻</td>
<td>200</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>IC6-100-100</td>
<td>NO₂</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA6-10-100</td>
<td>F</td>
<td>10</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA6-CYM</td>
<td>Cl⁻</td>
<td>1000</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA6-MIX1-500</td>
<td>F</td>
<td>100</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA6-MIX2-100</td>
<td>F</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA6-MIX-THG</td>
<td>NO₃</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICC-DX-621</td>
<td>Li⁺</td>
<td>50</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-CL-7E6</td>
<td>Cl⁻</td>
<td>2500</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>2500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F⁻</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICC-MX-WRC5</td>
<td>Na⁺</td>
<td>100</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-DX-51</td>
<td>F⁻</td>
<td>20</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAS-MIX1-500</td>
<td>F⁻</td>
<td>100</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAS-MIX2-100</td>
<td>F⁻</td>
<td>10</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### IC Multi-Element Standard, 5 Elements

| Product No. \n|---|
| ICC5-1000-75 |

<table>
<thead>
<tr>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Li⁺</td>
<td>1000</td>
<td>2-5% HNO₃</td>
<td>75ml</td>
</tr>
<tr>
<td>Na⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mg²⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ca²⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Product No. \n|---|
| ICC5MIX10B |

<table>
<thead>
<tr>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca²⁺</td>
<td>15</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td>K⁺</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mg²⁺</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Na⁺</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NH₄⁺</td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Product No. \n|---|
| ICC5-MIX1-100 |

<table>
<thead>
<tr>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Na⁺</td>
<td>40</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>NH₄⁺</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K⁺</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mg²⁺</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ca²⁺</td>
<td>200</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Product No. \n|---|
| ICC5MIX11B |

<table>
<thead>
<tr>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca²⁺</td>
<td>20</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td>K⁺</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mg²⁺</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Na⁺</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NH₄⁺</td>
<td>20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Product No. \n|---|
| ICC5MIX12B |

<table>
<thead>
<tr>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca²⁺</td>
<td>5000</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td>K⁺</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mg²⁺</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Na⁺</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NH₄⁺</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Product No. \n|---|
| ICC5MIX13B |

<table>
<thead>
<tr>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca²⁺</td>
<td>10000</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td>K⁺</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mg²⁺</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Na⁺</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NH₄⁺</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>-------------</td>
<td>--------</td>
</tr>
<tr>
<td>ICC5MIX1A</td>
<td>Ca²⁺</td>
<td>20</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ICC5MIX1B</td>
<td>Ca²⁺</td>
<td>0.1</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>ICC5MIX2B</td>
<td>Ca²⁺</td>
<td>0.25</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td>ICC5MIX3B</td>
<td>Ca²⁺</td>
<td>0.5</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>ICC5MIX4B</td>
<td>Ca²⁺</td>
<td>0.75</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td>ICC5MIX5B</td>
<td>Ca²⁺</td>
<td>1</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
</tr>
<tr>
<td>ICC5MIX6B</td>
<td>Ca²⁺</td>
<td>2.5</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>ICC5MIX7B</td>
<td>Ca²⁺</td>
<td>5</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>ICC5MIX8B</td>
<td>Ca²⁺</td>
<td>7.5</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td>ICC5MIX9B</td>
<td>Ca²⁺</td>
<td>10</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>ICCS-MIX-THG</td>
<td>NH₄⁺</td>
<td>10</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>ICCSS06</td>
<td>Ca²⁺</td>
<td>10</td>
<td>2% HNO₃</td>
</tr>
<tr>
<td></td>
<td>Li⁺</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
</tr>
<tr>
<td>ICA5-TYD-500</td>
<td>F^-</td>
<td>100</td>
<td>H2O</td>
</tr>
<tr>
<td></td>
<td>Cl^-</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO3^-</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO4^{2-}</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO4^{3-}</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>ICA-AIT-5-100</td>
<td>Cl</td>
<td>1000</td>
<td>H2O</td>
</tr>
<tr>
<td></td>
<td>PO4^{3-}</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO2^-</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO3^-</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO4^{2-}</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>ICC-10PPM-5</td>
<td>Li^+</td>
<td>10</td>
<td>H2O</td>
</tr>
<tr>
<td></td>
<td>Na^+</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K^+</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg^{2+}</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca^{2+}</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
</tr>
<tr>
<td>ICMIX-5-100</td>
<td>NH₄⁺</td>
<td>1000</td>
<td>H₂O</td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-NHS-4-500</td>
<td>Na⁺</td>
<td>100</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-SDN5-100</td>
<td>Na⁺</td>
<td>25</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-SDN5-500</td>
<td>Na⁺</td>
<td>25</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC4-MIX1-100</td>
<td>Na⁺</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC4-MIX1-250</td>
<td>Na⁺</td>
<td>1000</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ca²⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------</td>
<td>-------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICC4MIX2A</td>
<td>Na⁺, Mg²⁺, Ca²⁺, K⁺</td>
<td>10</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>IC-NHS-4</td>
<td>Na⁺, K⁺, Mg²⁺, Ca²⁺</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>IC4-1000-500</td>
<td>Cl⁻, NO₃⁻, SO₄²⁻, NO₂⁻</td>
<td>1000</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td>IC4-100-100</td>
<td>Cl⁻, NO₃⁻, SO₄²⁻, NO₂⁻</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>ICA4MIX2A</td>
<td>Cl⁻, NO₂⁻, NO₃⁻, SO₄²⁻</td>
<td>10</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>ICA4-SER</td>
<td>Cl⁻, NO₂⁻, NO₃⁻, SO₄²⁻</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>IC4-1002-100</td>
<td>Ca²⁺, Mg²⁺, Na⁺, K⁺</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td>ICA-TG-45</td>
<td>PO₄³⁻</td>
<td>10</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>3000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-MX-WRC4</td>
<td>Cl⁻</td>
<td>1000</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-CL-6E4</td>
<td>Cl⁻</td>
<td>2500</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>2500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-CL-8E4</td>
<td>Cl⁻</td>
<td>75</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCMX01</td>
<td>Ca²⁺</td>
<td>1500</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICCMX05</td>
<td>Ca²⁺</td>
<td>1500</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-MIX2</td>
<td>F</td>
<td>1</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC Multi-Element Standard, 3 Elements</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Product No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-TG-35</td>
<td>PO₄³⁻</td>
<td>100</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>NH₄⁺</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC Multi-Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-NHS-3</td>
<td>Na⁺</td>
<td>200</td>
<td>H₂O, tr. HNO₃</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>K⁺</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC Multi-Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC3-1000-500</td>
<td>F</td>
<td>1000</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC Multi-Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC3-2-1000-100</td>
<td>Cl</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC Multi-Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA3-MIX1-100</td>
<td>SO₄²⁻</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC Multi-Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA3-MIX1-250</td>
<td>SO₄²⁻</td>
<td>1000</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC Multi-Element Standard, 3 Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA3-MIX1-500</td>
<td>SO₄²⁻</td>
<td>1000</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>----------------</td>
<td>----------</td>
<td>-------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICA3-MIX2-500</td>
<td>Cl⁺</td>
<td>150</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA3-MIX3-100</td>
<td>F⁻</td>
<td>10</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cl⁺</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA3-SER</td>
<td>F⁻</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Br⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA3-TYD-ST-II</td>
<td>Cl⁺</td>
<td>1000</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-AIT-35</td>
<td>Cl⁺</td>
<td>1000</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICA-MIX-301</td>
<td>Br⁻</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>NO₃⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product No.</td>
<td>Elements</td>
<td>Conc. µg/ml</td>
<td>Matrix</td>
<td>Pack Size</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------</td>
<td>-------------</td>
<td>---------</td>
<td>-----------</td>
</tr>
<tr>
<td>ICA-MIX-TYD</td>
<td>F</td>
<td>1000</td>
<td>H₂O</td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>1000</td>
<td>H₂O</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>1000</td>
<td>H₂O</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICA-MX3-250</td>
<td>F</td>
<td>100</td>
<td>H₂O</td>
<td>250ml</td>
</tr>
<tr>
<td></td>
<td>NO₂⁻</td>
<td>100</td>
<td>H₂O</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PO₄³⁻</td>
<td>100</td>
<td>H₂O</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-FBA-CUSTOM-100ML</td>
<td>K⁺</td>
<td>5000</td>
<td>1% HNO₃</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Mg²⁺</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>300</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC-AIT-2-100</td>
<td>K⁺</td>
<td>1000</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>Na⁺</td>
<td>1000</td>
<td>H₂O</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REICA2MIX1D</td>
<td>CH₃COO⁻</td>
<td>100</td>
<td>H₂O</td>
<td>50ml</td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>100</td>
<td>H₂O</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Elements</th>
<th>Conc. µg/ml</th>
<th>Matrix</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>REICA2MIX1A</td>
<td>CH₃COO⁻</td>
<td>100</td>
<td>H₂O</td>
<td>100ml</td>
</tr>
<tr>
<td></td>
<td>SO₄²⁻</td>
<td>100</td>
<td>H₂O</td>
<td></td>
</tr>
</tbody>
</table>
Atomic Absorption Standards

Reagecon manufacture an extensive range of aqueous AA Standards. These include standards for the measurement of the most common alkali and transition metals.

There are two types of Atomic Absorption Spectrometry, (AAS). Flame Atomic Absorption Spectrometry, (FAAS) and Graphite Furnace Atomic Absorption Spectrometry (GFAAS).

Flame Atomic Absorption Spectrometry, (FAAS) either an air/acetylene or a nitrous oxide/acetylene flame can be used to evaporate the solvent and dissociate the sample into its component atoms. When light from a hollow cathode lamp (selected based on the element to be determined) passes through the cloud of atoms, the atoms of interest absorb the light from the lamp. This is measured by a detector, and used to calculate the concentration of that element in the original sample. The use of a flame limits the excitation temperature reached by a sample to a maximum of approximately 2600°C (with the Nitrous Oxide / acetylene flame). For many elements this is not a problem. However, there are a number of refractory elements like V, Zr, Mo and B which do not perform well with a flame source. This is because the maximum temperature reached, even with the N₂O/acetylene flame, is insufficient to break down compounds of these elements. As a result, flame AAS sensitivity for these elements is not as good as other elemental analysis techniques.

FAAS is an inexpensive technique that is rapid for a few selected elements however it has poor sensitivity (high detection limits), is limited to single element determination each time and requires a large amount of sample. It has a narrow linear range.

Graphite Furnace Atomic Absorption Spectrometry (GFAAS) - This technique is essentially the same as FAAS, except the flame is replaced by a small, electrically heated graphite tube, or cuvette, which is heated to a temperature up to 3000°C to generate the cloud of atoms. The higher atom density and longer residence time in the tube improve furnace AAS detection limits by a factor of up to 1000x compared to flame AAS, down to the sub-ppb range. However, because of the temperature limitation and the use of graphite cuvettes, refractory element performance is still somewhat limited.

GFAAS is relatively inexpensive and requires small sample volume, it has excellent sensitivity (low detection limits) however it is also limited to single element determination and has a narrow linear range.

Single Element Atomic Absorption Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAALH</td>
<td>Aluminium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAALM</td>
<td>Aluminium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AASBH</td>
<td>Antimony Standard 1000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AASBM</td>
<td>Antimony Standard 10000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAASH</td>
<td>Arsenic (III) Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAASM</td>
<td>Arsenic (III) Standard 10000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAAS05H</td>
<td>Arsenic (V) Standard 1000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-GLO-BA-500</td>
<td>Barium Standard 1000ppm Ba, as Barium Nitrate in 0.5M Nitric Acid, (trac. to NIST)</td>
<td>500ml</td>
</tr>
<tr>
<td>AABAH</td>
<td>Barium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td>AABAM</td>
<td>Barium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AABEH</td>
<td>Beryllium Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AABEM</td>
<td>Beryllium Standard 10000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AABIH</td>
<td>Bismuth Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AABIM</td>
<td>Bismuth Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-GLO-B-500</td>
<td>Boron Standard 1000ppm B, as Boric Acid in Water, (traceable to NIST)</td>
<td>500ml</td>
</tr>
<tr>
<td>AAB-H</td>
<td>Boron Standard 1000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAB-M</td>
<td>Boron Standard 10000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AACDH</td>
<td>Cadmium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AACDM</td>
<td>Cadmium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AACAD1</td>
<td>Calcium Standard 1ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AACAD2</td>
<td>Calcium Standard 2ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AACAD3</td>
<td>Calcium Standard 3ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AACAD5</td>
<td>Calcium Standard 5ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AACAH10A</td>
<td>Calcium Standard 10ppm in 0.5M Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AACAH10C</td>
<td>Calcium Standard 10ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAC100S</td>
<td>Calcium Standard 100ppm in Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAC01</td>
<td>Calcium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AACAH</td>
<td>Calcium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AACAH1</td>
<td>Calcium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>AACAM</td>
<td>Calcium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AACEH1</td>
<td>Cerium Standard 1000ppm in 2.5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AACEH</td>
<td>Cerium Standard 1000ppm in 2.5% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AACSH</td>
<td>Cesium Standard 1000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>ACSM</td>
<td>Cesium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-BAE-STD12</td>
<td>Chromium Standard 0.1ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AA-BAE-STD13</td>
<td>Chromium Standard 0.3ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AA-BAE-STD14</td>
<td>Chromium Standard 0.65ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>ACRH</td>
<td>Chromium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>ACRM</td>
<td>Chromium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>ACOH</td>
<td>Cobalt Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>ACM</td>
<td>Cobalt Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>CUR</td>
<td>Copper Standard 1ppm in 2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>ACU2PM100</td>
<td>Copper Standard 2ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>ACU2WB50</td>
<td>Copper Standard 20ppb in 2% Nitric Acid</td>
<td>50ml</td>
</tr>
<tr>
<td>ACUH</td>
<td>Copper Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>ACUH-250ML</td>
<td>Copper Standard 10000ppm in 0.5M Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>ACUM</td>
<td>Copper Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AEUH</td>
<td>Europium Standard 1000ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AGDH</td>
<td>Gadolinium Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AGDM</td>
<td>Gadolinium Standard 10000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AGAH</td>
<td>Gallium Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td>AAGAM</td>
<td>Gallium Standard 10000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAGEH</td>
<td>Germanium Standard 1000ppm in 1% Hydrofluoric Acid &amp; 5% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAAU10</td>
<td>Gold Standard 10ppm in 5% Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAAUS5</td>
<td>Gold Standard 1000ppm in 0.5N Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAAUH</td>
<td>Gold Standard 1000ppm in 2M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAAUM</td>
<td>Gold Standard 10000ppm in 2M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAINH</td>
<td>Indium Standard 1000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAINM</td>
<td>Indium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAIRH</td>
<td>Iridium Standard 1000ppm in 10% Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAIRM</td>
<td>Iridium Standard 10000ppm in 10% Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAFEN</td>
<td>Iron Standard 1ppm in 2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AAFEH</td>
<td>Iron Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAFEH-250ML</td>
<td>Iron Standard 1000ppm in 0.5M Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AAFENM</td>
<td>Iron Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AALAH</td>
<td>Lanthanum Standard 1000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AALAM</td>
<td>Lanthanum Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAPBH-250ML</td>
<td>Lead Standard 1000ppm in 0.5M Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AAPBH</td>
<td>Lead Standard 10000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAPBM</td>
<td>Lead Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AALIH</td>
<td>Lithium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AALIM</td>
<td>Lithium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AALUH</td>
<td>Lutetium Standard 1000ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAMGH</td>
<td>Magnesium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAMGM</td>
<td>Magnesium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAMNE</td>
<td>Manganese Standard 1ppm in 2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AAMNH</td>
<td>Manganese Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAMNH-250ML</td>
<td>Manganese Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AAMNH/2HNO3</td>
<td>Manganese Standard 1000ppm in 2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AAMNM</td>
<td>Manganese Standard 10000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAHG1</td>
<td>Mercury Standard 1ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAHG10</td>
<td>Mercury Standard 10ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAHG100</td>
<td>Mercury Standard 100ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAHG</td>
<td>Mercury Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAHG</td>
<td>Mercury Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAMOH</td>
<td>Molybdenum Standard 1000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAMOM</td>
<td>Molybdenum Standard 10000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AANISO</td>
<td>Nickel Standard 0.05ppm in 5% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANIH</td>
<td>Nickel Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANIM</td>
<td>Nickel Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAPDF</td>
<td>Palladium Standard 10ppm in 10% Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAPDH</td>
<td>Palladium Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAPDM</td>
<td>Palladium Standard 10000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>AAP-H</td>
<td>Phosphorus Standard 1000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAP-M</td>
<td>Phosphorus Standard 10000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAPT F</td>
<td>Platinnium Standard 10ppm in 10% Hydrochloric Acid</td>
<td>50ml</td>
</tr>
<tr>
<td>AAPTH</td>
<td>Platinnium Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAPT M</td>
<td>Platinnium Standard 10000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAKD1</td>
<td>Potassium Standard 1ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAKD2</td>
<td>Potassium Standard 2ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAKD5</td>
<td>Potassium Standard 5ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAKH10A</td>
<td>Potassium Standard 10ppm in 0.5M Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AAKH10C</td>
<td>Potassium Standard 10ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAKH-250ML</td>
<td>Potassium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AAK-H</td>
<td>Potassium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAKH1</td>
<td>Potassium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>AAK-M</td>
<td>Potassium Standard 10000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AARHE</td>
<td>Rhodium Standard 1ppm in 10% Hydrochloric Acid</td>
<td>50ml</td>
</tr>
<tr>
<td>AARHH</td>
<td>Rhodium Standard 1000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AARHM</td>
<td>Rhodium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AASMH</td>
<td>Samarium Standard 1000ppm in 2-5% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AASMH1</td>
<td>Samarium Standard 1000ppm in 2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AASEH</td>
<td>Selenium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AASEM</td>
<td>Selenium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AASIH</td>
<td>Silicon Standard 1000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-GLO-SIL-100</td>
<td>Silicon Standard 1000ppm Silicon as Sodium Silicate in Water</td>
<td>100ml</td>
</tr>
<tr>
<td>AASIM</td>
<td>Silicon Standard 10000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAAGH</td>
<td>Silver Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAAGM</td>
<td>Silver Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANAD05</td>
<td>Sodium Standard 0.5ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANAD1</td>
<td>Sodium Standard 1ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANAD2</td>
<td>Sodium Standard 2ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANAH10A</td>
<td>Sodium Standard 10ppm in 0.5M Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AANAH10C</td>
<td>Sodium Standard 10ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANA1005S</td>
<td>Sodium Standard 1000ppm in Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANAH</td>
<td>Sodium Standard 10000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANAH1</td>
<td>Sodium Standard 10000ppm in 0.5M Nitric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>AANAH-250ML</td>
<td>Sodium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AANASP</td>
<td>Sodium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AANAM</td>
<td>Sodium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AASRH</td>
<td>Strontium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AASRM</td>
<td>Strontium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAS-H</td>
<td>Sulphur Standard 1000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAS-M</td>
<td>Sulphur Standard 10000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AATEH</td>
<td>Tellurium Standard 1000ppm in 1M HCl</td>
<td>500ml</td>
</tr>
<tr>
<td>AATEM</td>
<td>Tellurium Standard 10000ppm in 1M HCl</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>AATLA</td>
<td>Thallium Standard 1 ppm in 2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AA-TL-1-250</td>
<td>Thallium Standard 1 ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AATL15</td>
<td>Thallium Standard 1 ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-TL-2-250</td>
<td>Thallium Standard 2 ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AATL25</td>
<td>Thallium Standard 2 ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-TL-3-250</td>
<td>Thallium Standard 3 ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AATL35</td>
<td>Thallium Standard 3 ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-TL-4-250</td>
<td>Thallium Standard 4 ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AATL45</td>
<td>Thallium Standard 4 ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-TL-5-250</td>
<td>Thallium Standard 5 ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AATL55</td>
<td>Thallium Standard 5 ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-TL-10-250</td>
<td>Thallium Standard 10 ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AATL105</td>
<td>Thallium Standard 10 ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AA-TL-25-250</td>
<td>Thallium Standard 25 ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AATLH</td>
<td>Thallium Standard 1000 ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AATLM</td>
<td>Thallium Standard 10000 ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AATTTH</td>
<td>Thorium Standard 1000 ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AATTTM</td>
<td>Thorium Standard 10000 ppm 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AASNH</td>
<td>Tin Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AASNM</td>
<td>Tin Standard 10000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AATIH</td>
<td>Titanium Standard 1000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AATiM</td>
<td>Titanium Standard 10000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAW-H</td>
<td>Tungsten Standard 1000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAW-M</td>
<td>Tungsten Standard 10000ppm in Water</td>
<td>500ml</td>
</tr>
<tr>
<td>AAUH</td>
<td>Uranium Standard 1000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAUM</td>
<td>Uranium Standard 10000ppm in 1M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAV-H</td>
<td>Vanadium Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAV-M</td>
<td>Vanadium Standard 10000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAYBH</td>
<td>Ytterbium Standard 1000ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAZN-100m</td>
<td>Zinc Standard 1ppm in Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AAZNH</td>
<td>Zinc Standard 1000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAZNH-250mL</td>
<td>Zinc Standard 1000ppm in 0.5M Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AAZNH</td>
<td>Zinc Standard 10000ppm in 0.5M Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAZN-100m</td>
<td>Zinc Standard 5000ppm in 2-5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AAZN502</td>
<td>Zinc Standard 5000ppm in 2-5% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AAZN502</td>
<td>Zinc Standard 5000ppm in 2-5% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAZRH</td>
<td>Zirconium Standard 1000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAZRM</td>
<td>Zirconium Standard 10000ppm in 1M Hydrochloric Acid</td>
<td>500ml</td>
</tr>
</tbody>
</table>
### Multi Element Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA-BAE-STD10</td>
<td>Multi Element Standard Ag, Zn 0.75ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AA-BAE-STD3</td>
<td>Multi Element Standard Cu,Ni,Pb,Cd 3ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AA-BAE-STD8</td>
<td>Multi Element Standard Ag, Zn 0.25ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AA-BAE-STD9</td>
<td>Multi Element Standard Ag, Zn 0.50ppm in 2% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AA-BIB-3-100</td>
<td>Multi Element Standard Cd, Pb, Ni @1000ppm in 2% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AA-BIB-3-500</td>
<td>Multi Element Standard Cd, Pb, Ni @1000ppm in 2% Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>AAMIX13A</td>
<td>Multi Element Standard 13 elements @10µg/ml</td>
<td>100ml</td>
</tr>
<tr>
<td>AAMIX13B</td>
<td>Multi Element Standard 13 elements @100µg/ml</td>
<td>100ml</td>
</tr>
<tr>
<td>AAS16-100</td>
<td>Multi Element Standard at 1mg/L in 5% Nitric Acid</td>
<td>100ml</td>
</tr>
<tr>
<td>AAS16-250</td>
<td>Multi Element Standard at 1mg/L in 5% Nitric Acid</td>
<td>250ml</td>
</tr>
<tr>
<td>AAS16-500</td>
<td>Multi Element Standard at 1mg/L in 5% Nitric Acid</td>
<td>500ml</td>
</tr>
</tbody>
</table>

### Releasing Agents for Atomic Absorption

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA1N05</td>
<td>Release Agent 1.0% Lanthanum in Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>RA1C05</td>
<td>Release Agent 1.0% Lanthanum in Hydrochloric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>RA5N05</td>
<td>Release Agent 5.0% Lanthanum in Nitric Acid</td>
<td>500ml</td>
</tr>
<tr>
<td>RA5C05</td>
<td>Release Agent 5.0% Lanthanum in Hydrochloric Acid</td>
<td>500ml</td>
</tr>
</tbody>
</table>

### Matrix Modifier Solutions for Graphite Furnace AA

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 100ml</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Ammonium Dihydrogen Phosphate</td>
<td>MMS101</td>
<td>MMS105</td>
</tr>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Ammonium Nitrate</td>
<td>MMS201</td>
<td>MMS205</td>
</tr>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Calcium Nitrate</td>
<td>MMS301</td>
<td>MMS305</td>
</tr>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Lanthanum Chloride</td>
<td>MMS401</td>
<td>MMS405</td>
</tr>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Lanthanum Nitrate</td>
<td>MMS501</td>
<td>MMS505</td>
</tr>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Magnesium Nitrate</td>
<td>MMS601</td>
<td>MMS605</td>
</tr>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Nickel Nitrate</td>
<td>MMS701</td>
<td>MMS705</td>
</tr>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Palladium Nitrate</td>
<td>MMS801</td>
<td>MMS805</td>
</tr>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Palladium Nitrate</td>
<td>MMS901</td>
<td>MMS905</td>
</tr>
<tr>
<td>AA Matrix Modifier Solution for Graphic Furnace Palladium Nitrate</td>
<td>MMS1001</td>
<td>MMS1005</td>
</tr>
</tbody>
</table>
Flame Photometry Standards

Summary of Features & Benefits:

- Single and multielement solutions available
- Wide range of values and elements
- A very high accuracy supported by a certificate of analysis which can be downloaded online
- Products are non hazardous, non toxic and SDS (Safety Data Sheets) can also be downloaded
- All products manufactured and tested in a GLP (Good Laboratory Practice) environment

The Principle of Flame Photometry

The benefits of measuring electromagnetic radiation emitted by atoms subjected to flame excitation has been recognised for over 150 years in analytical chemistry. In the intervening period instrumentation capable of exploiting this principle has been developed, refined and commercialised by several companies using a number of technologies. Flame photometry is particularly suitable for measuring the concentration of Alkali and Alkaline Earth metals in several matrices by exploiting a characteristic of such metals whereby, their atoms reach an excited state at a lower temperature than most other metals. The instrument operates on the principle that the metals are thermally dissociated into atoms and the electrons in some of these atoms are excited by the flame. When the excited atoms return to their normal state, they emit electromagnetic radiation which lies mainly in the visible region. The wavelengths of this radiation are easily isolated by an optical filter from those of most other elements and then converted to an electric signal. This signal is a direct function of the concentration of the particular metal in the sample, control or standard. The spectra produced are simple, free of interference and well suited to quantifiable measurement.

Calibration & Control

Flame Photometry Standards may be used to:

1) Calibrate the instrument in preparation for testing
2) Control the entire testing process to include:
   • The flame photometer
   • Sample
   • Operator
   • Measuring environment
   Any of these four factors can influence the accuracy and precision of the analysis and give erroneous results.
3) Perform instrument qualification
4) Assist in method validation of a particular flame photometry technique
### Industrial Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIBA1</td>
<td>Barium</td>
<td>1,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FIBA3</td>
<td>Barium</td>
<td>3,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FIBA10M</td>
<td>Barium</td>
<td>10,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FICA1</td>
<td>Calcium</td>
<td>1,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FICA2</td>
<td>Calcium</td>
<td>2,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FICA10M</td>
<td>Calcium</td>
<td>10,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FICS1</td>
<td>Cesium</td>
<td>1,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FIL1</td>
<td>Lithium</td>
<td>1,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FIL10M</td>
<td>Lithium</td>
<td>10,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FINA1</td>
<td>Sodium</td>
<td>1,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FINA10M</td>
<td>Sodium</td>
<td>10,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FIK1</td>
<td>Potassium</td>
<td>1,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FIK10M</td>
<td>Potassium</td>
<td>10,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FISR1</td>
<td>Strontium</td>
<td>1,000ppm</td>
<td>500ml</td>
</tr>
<tr>
<td>FIRB1</td>
<td>Rubidium</td>
<td>1,000ppm</td>
<td>500ml</td>
</tr>
</tbody>
</table>

### Clinical Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCNK3</td>
<td>Sodium 100mmol/l and Potassium 100 mmol/l</td>
<td>500ml</td>
</tr>
<tr>
<td>FCNK4</td>
<td>Sodium 120mmol/l and Potassium 2 mmol/l</td>
<td>500ml</td>
</tr>
<tr>
<td>FCNK5</td>
<td>Sodium 140mmol/l and Potassium 5 mmol/l</td>
<td>500ml</td>
</tr>
<tr>
<td>FCNK1</td>
<td>Sodium 160mmol/l and Potassium 8 mmol/l</td>
<td>500ml</td>
</tr>
<tr>
<td>FCNK2</td>
<td>Sodium 160mmol/l and Potassium 80 mmol/l</td>
<td>500ml</td>
</tr>
<tr>
<td>FCLI001</td>
<td>Lithium 1 mmol/l</td>
<td>500ml</td>
</tr>
<tr>
<td>FCNK6-M</td>
<td>Sodium 30mmol/l and Potassium 20mmol/l</td>
<td>100ml</td>
</tr>
<tr>
<td>FCNK6-S</td>
<td>Sodium 30mmol/l and Potassium 20mmol/l</td>
<td>2ml</td>
</tr>
<tr>
<td>FCNK7-M</td>
<td>Sodium 60mmol/l and Potassium 40mmol/l</td>
<td>100ml</td>
</tr>
<tr>
<td>FCNK7-S</td>
<td>Sodium 60mmol/l and Potassium 40mmol/l</td>
<td>2ml</td>
</tr>
<tr>
<td>FCNK8-M</td>
<td>Sodium 90mmol/l and Potassium 60mmol/l</td>
<td>100ml</td>
</tr>
<tr>
<td>FCNK8-S</td>
<td>Sodium 90mmol/l and Potassium 60mmol/l</td>
<td>2ml</td>
</tr>
<tr>
<td>FCNK9-M</td>
<td>Sodium 120mmol/l and Potassium 80mmol/l</td>
<td>100ml</td>
</tr>
<tr>
<td>FCNK9-S</td>
<td>Sodium 120mmol/l and Potassium 80mmol/l</td>
<td>2ml</td>
</tr>
<tr>
<td>FCNK10-M</td>
<td>Sodium 150mmol/l and Potassium 100mmol/l</td>
<td>100ml</td>
</tr>
<tr>
<td>FCNK10-S</td>
<td>Sodium 150mmol/l and Potassium 100mmol/l</td>
<td>2ml</td>
</tr>
<tr>
<td>FCNK11-M</td>
<td>Sodium 180mmol/l and Potassium 120mmol/l</td>
<td>100ml</td>
</tr>
<tr>
<td>FCNK11-S</td>
<td>Sodium 180mmol/l and Potassium 120mmol/l</td>
<td>2ml</td>
</tr>
<tr>
<td>FCNK12-M</td>
<td>Sodium 210mmol/l and Potassium 140mmol/l</td>
<td>100ml</td>
</tr>
<tr>
<td>FCNK12-S</td>
<td>Sodium 210mmol/l and Potassium 140mmol/l</td>
<td>2ml</td>
</tr>
</tbody>
</table>
## Multi-Element Linearity Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPLE5</td>
<td>Low</td>
<td></td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Barium</td>
<td>28.8ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Calcium</td>
<td>18.2ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lithium</td>
<td>1.91ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Potassium</td>
<td>2.09ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sodium</td>
<td>2.15ppm</td>
<td></td>
</tr>
<tr>
<td>FPMES</td>
<td>Medium</td>
<td></td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Barium</td>
<td>105ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Calcium</td>
<td>52.4ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lithium</td>
<td>5.42ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Potassium</td>
<td>5.37ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sodium</td>
<td>5.67ppm</td>
<td></td>
</tr>
<tr>
<td>FPHES</td>
<td>High</td>
<td></td>
<td>500ml</td>
</tr>
<tr>
<td></td>
<td>Barium</td>
<td>510ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Calcium</td>
<td>112ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lithium</td>
<td>10.0ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Potassium</td>
<td>11.4ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sodium</td>
<td>11.3ppm</td>
<td></td>
</tr>
<tr>
<td>FPHK3</td>
<td>Combination of FPLE5, FPMES &amp; FPHES</td>
<td>As above</td>
<td>3 x 500ml</td>
</tr>
</tbody>
</table>
The Principle of Titrimetry

Titrimetry or measurement by titration includes a set of widely used analytical techniques, some of which have been in widespread use for almost 200 years. Volumetric titration dates back at least to the work of French chemist Gay-Lussac, who devised a method in 1835 to determine the purity of Silver, using standardised Sodium Chloride as the titrant.

The principle of all titrimetry involves the determination of the quantity of the reagent of known concentration (titrant), that is required to react completely with an unknown analyte. Volumetric titrimetry involves measuring the volume of the solution of known concentration (titrant) consumed, gravimetric titrimetry measures the mass of the reagent consumed and coulometric titration measures a direct electrical current of known magnitude that consumes the analyte. In coulometry, the time it takes to complete the electrochemical reaction, is the measurand.

An analytical volumetric solution (also called titrant, standard titrant or standard solution) is a reagent of known concentration that is added from a burette or other dispensing apparatus to a sample (analyte) until a reaction between the two liquids is judged to be complete. This completeness (end point) is usually observed in a manual titration by the production of a physical change read visually as the titrant is added to the analyte. Such a change may include an appearance, disappearance or change of colour or appearance/disappearance of turbidity (cloudiness). Nowadays, instruments are widely used to detect the end points by detection of any of several properties or characteristics of the analyte solution including colour, turbidity, temperature, refractive index, potential difference, current or conductivity. In simple terms titrimetry is broadly divided into two main classifications - manual and instrumental - irrespective of how the end point is detected. In the case of manual titrations, indicator, titrant or analyte change of colour is by far the most important method of end point detection. Therefore, the availability of a wide selection of indicators is an integral part of any offering of Analytical Volumetric Solutions. This compendium carries by far the most extensive offering of both indicators and titrants available in the market place. The end point in automatic titration is indicated most commonly by a change in potential of an electrode that responds to the concentration of the reagent or the analyte.

Analysis by titration brings a large number of benefits to the analyst including the following:

- Relatively easy to perform (although high accuracy manual titration requires practice, dexterity, experience and sound judgement)
- Rapid, cheap and versatile
- Accurate, reproducible, traceable and comparable

Furthermore, titration reactions should exhibit defined stoichiometry, be quantitative, establish equilibrium that is definite and fast, and provide unambiguous results.
Types of Titration Reactions

Acid/Base reactions (also called neutralisation titrations)

These are used to determine either the amount of acid/base in an analyte or substances that can be converted to an acid/base. They may also sometimes be used to track the progress of chemical reactions that produce or consume hydrogen ions. The titrants are always strong acids or bases and include hydrochloric acid, perchloric acid, sulphuric acid, sodium hydroxide, potassium hydroxide and sometimes barium hydroxide. Weak acids or bases are not used because they react incompletely with the analyte. The colour indicator used in an acid base titration is a weak acid/base itself which in its undisassociated form differs in colour from its conjugate acid or base form. Typical elements suitable to this type of titration method include carbon, nitrogen, chlorine, bromine and fluorine. Pretreatment of these elements converts the element to an inorganic acid or base that is then titrated. An example is nitrogen which occurs in a wide range of forms both organic, inorganic or as a constituent of biological materials. Therefore, a methodology for nitrogen measurement in amine groups such as the Kjeldahl method is extremely important in determining the protein content in grains, meats, and other human or animal foodstuffs. In addition to amines, others like esters and hydroxyl functional groups can also be determined. In addition, inorganic compounds such as carbonates, ammonium salts and several other NOx species can be determined.

Fields of Application

- Acid content in wine, milk, ketchup, fruit juice (etc)
- Content of HCl, HNO₃, H₂SO₄, NaOH, KOH
- Alkalinity determination in water
- TAN and TBN in petroleum products, edible or inedible oils and fats
- Determination of boric acid in cooling fluids of nuclear power stations
- Determination of free or total acidity in plating baths
- Determination of active ingredients in drugs or raw materials for the pharmaceutical industry
- Total nitrogen determination by Kjeldahl
- Wide range of inorganic, organic or biological species that possess inherent acidic or basic properties
- Use of chemical treatment that converts an analyte to an acid or base followed by titration with standardised strong acid or base

Oxidation/Reduction Titrations

These titrations may be performed manually or potentiometrically. In manual titrations, if indicators are used, they change colour upon being oxidized or reduced, independently of the chemical nature of the titrant or analyte. Instead, they depend on changes in the electropotential of the oxidation reduction system. Examples of such indicators include:

- Iron (III) complexes of orthophenothrolines
- Starch solutions
- Potassium thiocyanate

The principle of this type of titration involves a reaction between an oxidising and reducing pair, e.g. titration of iron (II) with cerium (IV) sulphate

- **Oxidising agents (examples)**
  - Iodine (Iodometry), potassium dichromate, potassium permanganate, potassium bromate, cerium (IV) ammonium nitrate, cerium (IV) ammonium sulphate, cerium (IV) hydrogen sulphate, cerium hydroxide, chlorine

- **Reducing agents (examples)**
  - Sodium thiosulphate, oxalic acid, iron ammonium (II) sulphate (Mohr’s salt), hydrogen peroxide, phenylarsine oxide (PAO), iron (II) ethylene diamine sulphate
Fields of Application

- **Environment**
  - COD of water
  - Oxidation capacity of water by permanganate

- **Food and beverage**
  - Determination of free and total SO₂ in water, wine, alcohol, dried fruit etc

- **Pharmaceuticals**
  - Vitamin C determination
  - Surface treatment
  - Titration of copper or tin using iodine
  - Titration of chromium (VI)

- **Petrochemicals**
  - Determination of water in hydrocarbons

**Complexometric Titrations**

Complexometric reactions have many applications in chemical analysis and in science in general. Their use in titrometry is a very important one of these applications. The reaction end point is detected either potentiometrically or manually using an indicator, whereby, a metal ion reacts appropriately with a ligand to form a complex. EDTA is the most widely used titrant in complexometric reactions although the use of other chemicals similar to EDTA are described in the literature; e.g. nitrilotriacetic acid. Generally, organic dyes that form complexes with metal ions to form chelates are used as indicators, a commonly used one being Eriochrome Black T. Methods have been developed, validated and published for detection or quantification of almost every metal in the periodic table with the exception of the Alkalii metals using EDTA complexation. This includes methods for at least 40 metals developed in our metals laboratory in Reagecon, with more at development or validation stage.

This methodology is regularly used to determine the concentration of divalent cations such as calcium, magnesium, copper, lead, zinc, cadmium, aluminium

**Fields of application**

- **Environment**
  - Total hardness of water (Ca²⁺ and Mg²⁺).

- **Surface treatment**
  - Determination of Cu²⁺, Ni²⁺, Pb²⁺, Zn²⁺ in plating baths

**Precipitation Titrations**

This analytical methodology is based on reactions that yield compounds of limited solubility. There is not a very wide range of precipitating agents that can be used gainfully in titrometry and silver nitrate is by far the most important. These titrations, (also called argentometric titration) is where silver nitrate is used as the titrant. Silver nitrate can be used for determination of halides (Cl⁻, I⁻, Br⁻) and anions that behave like halides (SCN⁻, CN⁻, CNO⁻). It can also be used for determination of Mercaptans and organic materials that include Fatty Acids. Indicators typically used for precipitation titrations include sodium chromate, fluorescein and iron (III). A wide range of standardised silver nitrate titrants are available, some of which are standardised to specifically give a one to one equivalence with sodium chloride in various food stuffs.
Fields of Application

- **Environment**
  - Determination of chloride in water

- **Food and beverage**
  - Determination of chloride in many finished products (cooked meats, dairy products, etc.)

- **Precious metals**
  - Determination of silver

- **Pharmaceuticals**
  - Titration of halides

---

### Analytical Volumetric Solutions

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 1L</th>
<th>Product No. 2.5L</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid 0.1M (0.1N)</td>
<td>CH20101</td>
<td>CH20105</td>
<td></td>
</tr>
<tr>
<td>Acetic acid 0.5M (0.5N)</td>
<td>CH20051</td>
<td>CH20055</td>
<td></td>
</tr>
<tr>
<td>Acetic acid 1.0M (1.0N)</td>
<td>CH21001</td>
<td>CH21005</td>
<td></td>
</tr>
<tr>
<td>Acetic acid 2.0M (2.0N)</td>
<td>CH22001</td>
<td>CH22005</td>
<td></td>
</tr>
<tr>
<td>Acetic acid 5.0M (5.0N)</td>
<td>CH25001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonia 0.1M (0.1N)</td>
<td>NH20101</td>
<td>NH20105</td>
<td></td>
</tr>
<tr>
<td>Ammonia 1.0M (1.0N)</td>
<td>NH21001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonia 2M in 1-Propanol</td>
<td>NH1P22001</td>
<td>NH1P22005</td>
<td></td>
</tr>
<tr>
<td>Ammonium Chloride 0.05M</td>
<td>NH4C041</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Chloride 0.1M</td>
<td>NHCL011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Hydroxide 0.5M</td>
<td>NH2051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Hydroxide 5M</td>
<td>NH32501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Hydroxide 6M</td>
<td>NH32601</td>
<td>NH326W</td>
<td></td>
</tr>
<tr>
<td>Ammonium Iron (II) Sulphate 0.1M</td>
<td>NH52011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Sulphate 0.5M (1.0N)</td>
<td>AS2051</td>
<td>AS2055</td>
<td></td>
</tr>
<tr>
<td>Ammonium Thiocyanate 0.05M (0.05N)</td>
<td>AT2010F</td>
<td>AT20050W</td>
<td></td>
</tr>
<tr>
<td>Ammonium Thiocyanate 0.1M (0.1N)</td>
<td>AT21F</td>
<td>AT21W</td>
<td></td>
</tr>
<tr>
<td>Barium Chloride 0.05M (0.1N)</td>
<td>BACL20051</td>
<td>BACL20055</td>
<td></td>
</tr>
<tr>
<td>Barium Chloride 0.5M (1.0N)</td>
<td>BACL2051</td>
<td>BACL2055</td>
<td></td>
</tr>
<tr>
<td>Barium Chloride 1.0M (2.0N)</td>
<td>BACL2101</td>
<td>BACL2105</td>
<td></td>
</tr>
<tr>
<td>Barium Perchlorate 0.005M Alcoholic Solution</td>
<td>BACLO200051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzethonium Chloride 0.004M (Hyamine 1622 Solution)</td>
<td>HY0041</td>
<td>HY0045</td>
<td></td>
</tr>
<tr>
<td>Benzethonium Chloride 0.04M (Hyamine 1622 Solution)</td>
<td>HY041</td>
<td>HY045</td>
<td></td>
</tr>
<tr>
<td>Boron Tribromide 1M in Dichloromethane</td>
<td></td>
<td>BDCMW</td>
<td></td>
</tr>
<tr>
<td>Bromine (Bromate/Bromide) 0.05M (0.1N)</td>
<td>BR20101</td>
<td>BR20105</td>
<td></td>
</tr>
<tr>
<td>Bromine (Bromate/Bromide) 0.25M (0.5N)</td>
<td>BR20251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Product No. 1L</td>
<td>Product No. 2.5L</td>
<td>Product No. 5L</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>----------------</td>
<td>------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Calcium Acetate 1.0M</td>
<td>CAAC2101</td>
<td>CAAC2105</td>
<td></td>
</tr>
<tr>
<td>Calcium Chloride 0.005M (0.01N)</td>
<td>CACL20051</td>
<td>CACL20055</td>
<td></td>
</tr>
<tr>
<td>Calcium Chloride 0.0125M (0.025N)</td>
<td>CACL2001251</td>
<td>CACL2001255</td>
<td></td>
</tr>
<tr>
<td>Calcium Chloride 0.02M (0.04N)</td>
<td>CACL20021</td>
<td>CACL20025</td>
<td></td>
</tr>
<tr>
<td>Calcium Chloride 0.01M (0.02N)</td>
<td>CAACL20011</td>
<td>CAACL20015</td>
<td></td>
</tr>
<tr>
<td>Calcium Chloride 1.0 M (2.0N)</td>
<td>CAACL101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Chloride 0.5M (1.0N)</td>
<td>CAACL2051</td>
<td>CAACL2055</td>
<td></td>
</tr>
<tr>
<td>Cerium IV sulphate 0.05M (0.05N)</td>
<td>CS20051</td>
<td>CS20055</td>
<td></td>
</tr>
<tr>
<td>Cerium IV sulphate 0.1M (0.1N)</td>
<td>CS2011</td>
<td>CS2015</td>
<td></td>
</tr>
<tr>
<td>Cerium IV sulphate 0.2M (0.2N)</td>
<td>CS20251</td>
<td>CS20255</td>
<td></td>
</tr>
<tr>
<td>Cerium IV sulphate 1.0M (1.0N)</td>
<td>CS2101</td>
<td>CS2105</td>
<td></td>
</tr>
<tr>
<td>Citric Acid 1.0M</td>
<td>CA1010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper II Chloride 0.5M (0.5N)</td>
<td>CUCL2051</td>
<td>CUCL2055</td>
<td></td>
</tr>
<tr>
<td>Copper II Sulphate 0.1M (0.1N)</td>
<td>CU502011</td>
<td>CU502015</td>
<td></td>
</tr>
<tr>
<td>Copper II Sulphate 0.5M (0.5N)</td>
<td>CU502051</td>
<td>CU502055</td>
<td></td>
</tr>
<tr>
<td>Copper Sulphate Hydrate Solution 0.2g/l</td>
<td></td>
<td></td>
<td>CSPhos15000000</td>
</tr>
<tr>
<td>Cupric Solution 0.168M (0.168N)</td>
<td>CU201681</td>
<td>CU201685</td>
<td></td>
</tr>
<tr>
<td>Di-Potassium Oxalate 0.05M</td>
<td>KO20051</td>
<td>KO20055</td>
<td></td>
</tr>
<tr>
<td>EDTA (DiSodium Salt) 0.027M (0.054N)</td>
<td>EDB200271</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDTA (DiSodium salt) 0.01M (0.02N)</td>
<td>ED20011</td>
<td>ED20015</td>
<td></td>
</tr>
<tr>
<td>EDTA (DiSodium Salt) 0.1M (0.2N)</td>
<td>ED2011</td>
<td>ED2015</td>
<td></td>
</tr>
<tr>
<td>EDTA (DiSodium Salt) 0.002M (0.004N)</td>
<td>ED200021</td>
<td>ED200025</td>
<td></td>
</tr>
<tr>
<td>EDTA (DiSodium Salt) 0.01785M (0.0357N)</td>
<td>ED2003571</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDTA (DiSodium Salt) 0.02M (0.04N)</td>
<td>ED20021</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDTA (DiSodium Salt) 0.025M (0.05N)</td>
<td>ED200251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDTA (DiSodium Salt) 0.05M (0.10N)</td>
<td>ED20051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferric Chloride 0.01M</td>
<td>F0011</td>
<td></td>
<td>F20105</td>
</tr>
<tr>
<td>Formic Acid 0.1M</td>
<td></td>
<td></td>
<td>H200011</td>
</tr>
<tr>
<td>Hydrochloric Acid 0.01M (0.01N)</td>
<td>H200011</td>
<td>H20015</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.02M (0.02N)</td>
<td>H20021</td>
<td>H20025</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.027M (0.027N)</td>
<td>H200271</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.0357M (0.0357N)</td>
<td>H2003571</td>
<td>H2003575</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.05M (0.05N)</td>
<td>H20051</td>
<td>H20055</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.0714M (0.0714N)</td>
<td>H2007141</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.1M (0.1N)</td>
<td>H20101</td>
<td>H20105</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.233M (0.233N)</td>
<td>H202335</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.25M (0.25N)</td>
<td>H20251</td>
<td>H20255</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.2M (0.2N)</td>
<td>H20201</td>
<td>H20205</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.357M (0.357N)</td>
<td>H203571</td>
<td>H203575</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.5M (0.5N)</td>
<td>H20501</td>
<td>H20505</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.714M (0.714N)</td>
<td>H207141</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Product No. 1L</td>
<td>Product No. 2.5L</td>
<td>Product No. 5L</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>----------------</td>
<td>------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Hydrochloric Acid 1.0M (1.0N)</td>
<td>H21001</td>
<td></td>
<td>H21005</td>
</tr>
<tr>
<td>Hydrochloric Acid 1.8M (1.8N)</td>
<td></td>
<td></td>
<td>H21805</td>
</tr>
<tr>
<td>Hydrochloric Acid 15%</td>
<td></td>
<td></td>
<td>RH15WW100</td>
</tr>
<tr>
<td>Hydrochloric Acid 2.0M (2.0N)</td>
<td>H22001</td>
<td></td>
<td>H22005</td>
</tr>
<tr>
<td>Hydrochloric Acid 2.7M (2.7N)</td>
<td>H22701</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 3.57M (3.57N)</td>
<td>H23571</td>
<td></td>
<td>H23575</td>
</tr>
<tr>
<td>Hydrochloric Acid 3.0M (3.0N)</td>
<td>H23001</td>
<td></td>
<td>H23005</td>
</tr>
<tr>
<td>Hydrochloric Acid 4.0M (4.0N)</td>
<td>H24001</td>
<td></td>
<td>H24005</td>
</tr>
<tr>
<td>Hydrochloric Acid 5.0M (5.0N)</td>
<td>H25001</td>
<td></td>
<td>H25005</td>
</tr>
<tr>
<td>Hydrochloric Acid 6.0M (6.0N)</td>
<td>H26001</td>
<td></td>
<td>H26005</td>
</tr>
<tr>
<td>Hydrochloric Acid 8.0M (8.0N)</td>
<td></td>
<td></td>
<td>H28005</td>
</tr>
<tr>
<td>Hydrochloric Acid 0.5167M (0.5167N)</td>
<td>H2051671</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid 0.773M (0.773N)</td>
<td>H207331</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrofluoric Acid 0.05N 0.05M (0.05N)</td>
<td>HF20051</td>
<td></td>
<td>HF20055</td>
</tr>
<tr>
<td>Iodine 0.01M (0.02N)</td>
<td>i2001F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iodine 0.005M (0.01N)</td>
<td>i20005F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iodine 0.02365M (0.0473N)</td>
<td>i20023F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iodine 0.025M (0.05N)</td>
<td>i20025F</td>
<td>i20025W</td>
<td></td>
</tr>
<tr>
<td>Iodine 0.05M (0.1N)</td>
<td>i2005F</td>
<td>i2005W</td>
<td></td>
</tr>
<tr>
<td>Iodine 0.5M (1.0N)</td>
<td>i2050F</td>
<td>i2050W</td>
<td></td>
</tr>
<tr>
<td>Iron (II) Sulphate 0.1M (0.1N)</td>
<td>FES2011</td>
<td></td>
<td>FES2025</td>
</tr>
<tr>
<td>Iron (II) Sulphate 0.2M (0.2N)</td>
<td>FES2021</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron (III) Chloride 1.0M</td>
<td>FECL211</td>
<td></td>
<td>FECL215</td>
</tr>
<tr>
<td>Lactic Acid 0.1M</td>
<td>CH6011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead (II) Acetate 0.05M</td>
<td>PBA20051</td>
<td></td>
<td>PBA20055</td>
</tr>
<tr>
<td>Lead (II) Acetate 0.5M</td>
<td>PBA2051</td>
<td></td>
<td>PBA2055</td>
</tr>
<tr>
<td>Lead (II) Nitrate 0.5M (1.0N)</td>
<td>PBN02051</td>
<td></td>
<td>PBN02055</td>
</tr>
<tr>
<td>Lead Nitrate 0.01M (0.02N)</td>
<td>PB20011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead Nitrate 0.1M (0.2N)</td>
<td>PB2011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium Chloride 0.01M (0.02N)</td>
<td>MG20011</td>
<td></td>
<td>MG20015</td>
</tr>
<tr>
<td>Magnesium Chloride 0.1M (0.2N)</td>
<td>MG2011</td>
<td></td>
<td>MG2015</td>
</tr>
<tr>
<td>Magnesium Sulphate 0.01M (0.01N)</td>
<td>MGS020011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium Sulphate 0.09M (0.09N)</td>
<td>MS0091</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium Sulphate 0.1M (0.1N)</td>
<td>MGS02011</td>
<td></td>
<td>MGS02015</td>
</tr>
<tr>
<td>Manganese (II) Chloride 0.05M (0.05N)</td>
<td>MNCL20051</td>
<td></td>
<td>MNCL20055</td>
</tr>
<tr>
<td>Manganese (II) Chloride 0.5M (0.5N)</td>
<td>MNCL2051</td>
<td></td>
<td>MNCL2055</td>
</tr>
<tr>
<td>Mercury (I) Nitrate 0.1M (0.2N)</td>
<td>HGN2011</td>
<td></td>
<td>HGN2015</td>
</tr>
<tr>
<td>Mercury (II) Nitrate 0.05M (0.1N)</td>
<td>HGN20051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercury (II) Nitrate 0.01M (0.02N)</td>
<td>HGN20011</td>
<td></td>
<td>HGN20015</td>
</tr>
<tr>
<td>Mercury (II) Nitrate 0.01N (0.005M)</td>
<td>HGN200051</td>
<td></td>
<td>HGN200055</td>
</tr>
<tr>
<td>Methanolic Hydrochloric Acid 0.5N</td>
<td>MH2050</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Analytical Volumetric Solutions

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 1L</th>
<th>Product No. 2.5L</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morpholine 0.5N in Methanol</td>
<td></td>
<td>MD2050</td>
<td></td>
</tr>
<tr>
<td>Nickle (II) Chloride 0.5M (0.5N)</td>
<td>NICL20051</td>
<td>NICL20055</td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 0.01M (0.01N)</td>
<td>NO20001</td>
<td>NO20025</td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 0.02M (0.02N)</td>
<td>NO20021</td>
<td>NO20025</td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 0.1M (0.1N)</td>
<td>NO20101</td>
<td>NO20105</td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 0.5% w/v Solution</td>
<td></td>
<td>N05WV5</td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 1.0M (1.0N)</td>
<td>NO21001</td>
<td>NO21005</td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 2.0M (2.0N)</td>
<td>NO22001</td>
<td>NO22005</td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 4.0M (4.0N)</td>
<td>NO24001</td>
<td>NO24005</td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 5.0M (5.0N)</td>
<td>NO25001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 6.0M (6.0N)</td>
<td>NO26001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitric Acid 8.0M (8.0N)</td>
<td>NO28001</td>
<td>NO28005</td>
<td></td>
</tr>
<tr>
<td>Oxalic Acid 0.005M (0.01N)</td>
<td>OA200051</td>
<td>OA200255</td>
<td></td>
</tr>
<tr>
<td>Oxalic Acid 0.025M (0.05N)</td>
<td>OA200251</td>
<td>OA200255</td>
<td></td>
</tr>
<tr>
<td>Oxalic Acid 0.10M (0.2N)</td>
<td>OA2011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxalic Acid 0.05M (0.1N)</td>
<td>OA20051</td>
<td>OA20055</td>
<td></td>
</tr>
<tr>
<td>Oxalic Acid 0.25M (0.5N)</td>
<td>OA20251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxalic Acid 0.5M (1.0N)</td>
<td>OA2051</td>
<td>OA2055</td>
<td></td>
</tr>
<tr>
<td>Perchloric Acid 0.1N in 1,4 Dioxan</td>
<td>PD201F</td>
<td>PD201W</td>
<td></td>
</tr>
<tr>
<td>Perchloric Acid 0.01M (0.01N) in Acetic Acid</td>
<td>P2001F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perchloric Acid 0.1M (0.1N) in Acetic Acid</td>
<td>P2010F</td>
<td>P2010W</td>
<td></td>
</tr>
<tr>
<td>Perchloric Acid 0.5M (0.5N) in Acetic Acid</td>
<td>P2050F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenylarsine Oxide 0.00564M</td>
<td>CH500561</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphorous Tribromide 1M</td>
<td>PBR3DCM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Biiodate 0.025N</td>
<td>HK200025F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Biiodate 0.1N</td>
<td>HK2001F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Bromate 0.1M</td>
<td>KB201F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Bromate/Bromide 0.0167M (0.1N)</td>
<td>KB20016F</td>
<td>KB20016W</td>
<td></td>
</tr>
<tr>
<td>Potassium Bromide 0.5M</td>
<td>KBR205F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Chloride 0.01M (0.01N)</td>
<td>KCL20011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Chloride 0.1M (0.1N)</td>
<td>KCL2011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Chloride 0.2M (0.2N)</td>
<td>KCL2021</td>
<td>KCL2025</td>
<td></td>
</tr>
<tr>
<td>Potassium Chloride 0.5M (0.5N)</td>
<td>KCL2051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Chloride 1.0M (1.0N)</td>
<td>KCL2101</td>
<td>KCL2105</td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate 0.02M (0.120N)</td>
<td>KC20021</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate 0.0208M (0.125N )</td>
<td>KC2002W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate 0.0167M (0.1N)</td>
<td>KC20016F</td>
<td>KC20016W</td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate 0.04M (0.24N)</td>
<td>KCR24F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate 0.25M (1.5N)</td>
<td>KC20251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Product No. 1L</td>
<td>Product No. 2.5L</td>
<td>Product No. 5L</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Potassium Dichromate 0.041M (0.25N)</td>
<td>KC20041F</td>
<td>KC20041W</td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate 0.167M (1.0N)</td>
<td>KC2016F</td>
<td>KC2016W</td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate 10mg/l</td>
<td>KCO10F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate 1870mg/l</td>
<td>KCR18701</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Ferricyanide 0.1M (0.1N)</td>
<td>KFE2011</td>
<td>KFE2015</td>
<td></td>
</tr>
<tr>
<td>Potassium Fluoride 20%</td>
<td></td>
<td></td>
<td>KF205</td>
</tr>
<tr>
<td>Potassium Fluoride 60% w/v</td>
<td></td>
<td></td>
<td>KF60</td>
</tr>
<tr>
<td>Potassium Hydrogen Phthalate 0.1M (0.1N)</td>
<td>PHP2011</td>
<td>PHP2015</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 0.1N in Ethanol</td>
<td>ETKOH01F</td>
<td>ETKOH01W</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 0.05M (0.05N)</td>
<td>KOH20051</td>
<td>KOH2005S</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 0.1M (0.1N)</td>
<td>KOH20101</td>
<td>KOH20105</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 0.23M (0.23N)</td>
<td>KOH20235</td>
<td>KOH20235</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 0.23M (0.23N)</td>
<td>KOH20235</td>
<td>KOH20235</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 0.5M (0.5N)</td>
<td>KOH20501</td>
<td>KOH20505</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 0.5N in Ethanol</td>
<td>ETKOH05F</td>
<td>ETKOH05W</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 0.5N in Methanol</td>
<td>MKOH205F</td>
<td>MKOH205W</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 1.0M (1.0N)</td>
<td>KOH21001</td>
<td>KOH21005</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 1.0M (1.0N) in Ethanol</td>
<td>ETKOH1F</td>
<td>ETKOH1W</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 1.0M (1.0N) in Methanol</td>
<td>MKOH1F</td>
<td>MKOH1W</td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide 10.0M (10.0N)</td>
<td>KOH2101</td>
<td>KOH2105</td>
<td></td>
</tr>
<tr>
<td>Potassium Iodate 0.0147M (0.08833N)</td>
<td>PI2008W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Iodate 0.025M (0.15N)</td>
<td>PI20025W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Iodate 0.01667M (0.1N)</td>
<td>PI20016F</td>
<td>PI20016W</td>
<td></td>
</tr>
<tr>
<td>Potassium Iodate 0.05M (0.3N)</td>
<td>PI2005F</td>
<td>PI2005W</td>
<td></td>
</tr>
<tr>
<td>Potassium Iodate/Iodide 0.00333M (0.02N)</td>
<td>PI2002W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Iodide 0.1M (0.1N)</td>
<td>KI2011</td>
<td>KI2015</td>
<td></td>
</tr>
<tr>
<td>Potassium Iodide 1.0M (1.0N)</td>
<td>KI2101</td>
<td>KI2105</td>
<td></td>
</tr>
<tr>
<td>Potassium Iodide 1.8M (1.8N)</td>
<td>KI218W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Iodide 3.0M (3.0N)</td>
<td>KI2301</td>
<td>KI2305</td>
<td></td>
</tr>
<tr>
<td>Potassium Permanganate 0.002M (0.01N)</td>
<td>PP20002F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Permanganate 0.01M (0.5N)</td>
<td>PP2001F</td>
<td>PP2001W</td>
<td></td>
</tr>
<tr>
<td>Potassium Permanganate 0.02M (0.1N)</td>
<td>PP2002F</td>
<td>PP2002W</td>
<td></td>
</tr>
<tr>
<td>Potassium Permanganate 0.2M (1.0N)</td>
<td>PP2020F</td>
<td>PP2020W</td>
<td></td>
</tr>
<tr>
<td>Potassium Thiocyanate 0.02M (0.02N)</td>
<td>KT2002F</td>
<td>KT2002W</td>
<td></td>
</tr>
<tr>
<td>Potassium Thiocyanate 0.05M (0.05N)</td>
<td>KT2005F</td>
<td>KT2005W</td>
<td></td>
</tr>
<tr>
<td>Potassium Thiocyanate 0.1M (0.1N)</td>
<td>KT201F</td>
<td>KT201W</td>
<td></td>
</tr>
<tr>
<td>Potassium Thiocyanate 1.0M (1.0N)</td>
<td>KT210F</td>
<td>KT210W</td>
<td></td>
</tr>
<tr>
<td>Silver Nitrate 0.0141M (0.0141N)</td>
<td>N20014W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver Nitrate 0.0192M (0.0192N)</td>
<td>N20019F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver Nitrate 0.01M (0.01N) in Isopropyl Alcohol</td>
<td>PN20010F</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Analytical Volumetric Solutions

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 1L</th>
<th>Product No. 2.5L</th>
<th>Product No. 5L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver Nitrate 0.01M (0.01N)</td>
<td>N20010F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver Nitrate 0.01M (0.01N) in Methanol</td>
<td>MN20010F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver Nitrate 0.025M (0.025N)</td>
<td>N20025F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver Nitrate 0.0282M (0.0282N)</td>
<td></td>
<td></td>
<td>N20028W</td>
</tr>
<tr>
<td>Silver Nitrate 0.02M (0.02N)</td>
<td>N20020F</td>
<td></td>
<td>N20020W</td>
</tr>
<tr>
<td>Silver Nitrate 0.04M (0.04N)</td>
<td>N2004F</td>
<td></td>
<td>N2004W</td>
</tr>
<tr>
<td>Silver Nitrate 0.05M (0.05N)</td>
<td>N20050F</td>
<td></td>
<td>N20050W</td>
</tr>
<tr>
<td>Silver Nitrate 0.085M (0.085N)</td>
<td></td>
<td></td>
<td>N20085W</td>
</tr>
<tr>
<td>Silver Nitrate 0.1N in Methanol</td>
<td>MN2010F</td>
<td></td>
<td>N2010W</td>
</tr>
<tr>
<td>Silver Nitrate 0.1M (0.1N)</td>
<td>N20100F</td>
<td></td>
<td>N20100W</td>
</tr>
<tr>
<td>Silver Nitrate 0.1709M (0.1709N)</td>
<td>N201709F</td>
<td></td>
<td>N201709W</td>
</tr>
<tr>
<td>Silver Nitrate 0.5M (0.5N)</td>
<td>N2050F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver Nitrate 1.0M (1.0N)</td>
<td>N21000F</td>
<td></td>
<td>N2100W</td>
</tr>
<tr>
<td>Sodium Acetate 0.2M</td>
<td>SA02F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Acetate 0.3M</td>
<td>SA03MOLF1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Acetate 2M</td>
<td>SA2F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Arsenite 0.005M (0.01N)</td>
<td>SA200005F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Arsenite 0.05M (0.1N)</td>
<td>SA2005F</td>
<td>SA2005W</td>
<td></td>
</tr>
<tr>
<td>Sodium Arsenite 0.15M (0.3N)</td>
<td>SA2015F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Borohydride 0.4 % in 0.05N NaOH</td>
<td>NABH404F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Carbonate 0.05M (0.1N)</td>
<td>SC20051</td>
<td>SC20055</td>
<td></td>
</tr>
<tr>
<td>Sodium Carbonate 0.5M (1.0N)</td>
<td>SC20501</td>
<td>SC20505</td>
<td></td>
</tr>
<tr>
<td>Sodium Chloride 0.05M (0.05N)</td>
<td>NACL20051</td>
<td>NACL20055</td>
<td></td>
</tr>
<tr>
<td>Sodium Chloride 0.068M (0.068N)</td>
<td>NACL200685</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Chloride 0.1M (0.1N)</td>
<td>NACL2011</td>
<td>NACL2015</td>
<td></td>
</tr>
<tr>
<td>Sodium Chloride Solution at 0.9% w/w</td>
<td>NACL09WW1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide (Low in Carbonate) 0.115M (0.115N)</td>
<td>S21151LC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide (Low in Carbonate) 0.5M (0.5N)</td>
<td>S20501LC</td>
<td>S20505LC</td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide (Low in Carbonate) 1.0M (1.0N)</td>
<td>S21001LC</td>
<td>S21005LC</td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.01M (0.01N)</td>
<td>S20011</td>
<td></td>
<td>S20015</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.02M (0.02N)</td>
<td>S20021</td>
<td></td>
<td>S20025</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.05M (0.05N)</td>
<td>S20051</td>
<td></td>
<td>S20055</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.111M (0.111N)</td>
<td>S20111</td>
<td></td>
<td>S20115</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.1332M (0.1332N)</td>
<td>S2013321</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.156M (0.156N)</td>
<td>S215601</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.1M (0.1N)</td>
<td>S20101</td>
<td></td>
<td>S20105</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.1M (0.1N) (Low in Carbonate)</td>
<td>S20101LC</td>
<td></td>
<td>S20105LC</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.204M (0.204N)</td>
<td>S202041</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.25M (0.25N) 5L Bag In Box</td>
<td>SB20255</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.25M (0.25N)</td>
<td>S20251</td>
<td></td>
<td>S20255</td>
</tr>
<tr>
<td>Description</td>
<td>Product No. 1L</td>
<td>Product No. 2.5L</td>
<td>Product No. 5L</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.2M (0.2N)</td>
<td>S20201</td>
<td></td>
<td>S20205</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.3125M (0.3125N)</td>
<td>S2031251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.313M (0.313N) 5L Bag in Box</td>
<td>S203131</td>
<td></td>
<td>S203135</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.313M (0.313N)</td>
<td>S203131</td>
<td></td>
<td>S203135</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.33M (0.33N)</td>
<td>S20331</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.35465M (0.35465N)</td>
<td>S2035461</td>
<td></td>
<td>S2035465</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.4M (0.4N)</td>
<td>S20401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.5M (0.5M)</td>
<td>S20501</td>
<td></td>
<td>S20505</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.5M (0.5N) Bag in Box</td>
<td>SB20505</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.6M (0.6N)</td>
<td>S2065</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 0.714M (0.714N)</td>
<td>S207141</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 1.0M (1.0N) 5L Bag in Box</td>
<td>SB21005</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 1.0M (1.0N)</td>
<td>S21001</td>
<td></td>
<td>S21005</td>
</tr>
<tr>
<td>Sodium Hydroxide 1.2M (1.2N)</td>
<td>S21201</td>
<td></td>
<td>SB21205</td>
</tr>
<tr>
<td>Sodium Hydroxide 1.666M (1.666N)</td>
<td>S216661</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 10M (10N)</td>
<td>S10001</td>
<td></td>
<td>S10005</td>
</tr>
<tr>
<td>Sodium Hydroxide 2.0M (2.0N)</td>
<td>S22001</td>
<td></td>
<td>S22005</td>
</tr>
<tr>
<td>Sodium Hydroxide 2.5M (2.5N)</td>
<td>S22501</td>
<td></td>
<td>S22505</td>
</tr>
<tr>
<td>Sodium Hydroxide 3.0M (3.0N)</td>
<td>S23001</td>
<td></td>
<td>S23005</td>
</tr>
<tr>
<td>Sodium Hydroxide 3.57M (3.57N)</td>
<td>S23571</td>
<td></td>
<td>S23575</td>
</tr>
<tr>
<td>Sodium Hydroxide 4M (4N)</td>
<td>S24001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 5.0M (5.0N)</td>
<td>S25001</td>
<td></td>
<td>S25005</td>
</tr>
<tr>
<td>Sodium Hydroxide 5.0M (5.0N) from USP Grade Raw Material</td>
<td>S25001SP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide 6M (6N)</td>
<td>S26001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide Solution 20% w/v</td>
<td>S20WV1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Lauryl (Dodecyl) Sulphate 0.02M (0.02N)</td>
<td>SLS0021</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Lauryl (Dodecyl) Sulphate 0.1M (0.1N)</td>
<td>SLS011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Nitrite 0.1M (0.1N)</td>
<td>NANO011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Nitrite 0.2M (0.2N)</td>
<td>NANO021</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Nitrite 0.5M (0.5N)</td>
<td>NANO051</td>
<td></td>
<td>NANO055</td>
</tr>
<tr>
<td>Sodium Nitrite 1M (1.0N)</td>
<td>NANO11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Nitrite 4M (4.0N)</td>
<td>NANO041</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Oxalate 0.025M</td>
<td>NAC00251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Oxalate 0.05M</td>
<td>NAX0051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Oxalate 0.5M</td>
<td>NAC051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Sulphite 5% Zero Dissolved Oxygen Solution</td>
<td>NASS1</td>
<td></td>
<td>NASS5</td>
</tr>
<tr>
<td>Sodium Thiocyanate 0.1M (0.1N)</td>
<td>NAT20101</td>
<td></td>
<td>NAT20105</td>
</tr>
<tr>
<td>Sodium Thiocyanate 1.0M (1.0N)</td>
<td>NAT21001</td>
<td></td>
<td>NAT21005</td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.0125M (0.0125N)</td>
<td>T2001251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Product No. 1L</td>
<td>Product No. 2.5L</td>
<td>Product No. 5L</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>----------------</td>
<td>------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.01M (0.01N)</td>
<td>T20011</td>
<td></td>
<td>T20015</td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.025M (0.025N)</td>
<td>T200251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.02M (0.02N)</td>
<td>T20021</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.0551M (0.0551N)</td>
<td>T200511</td>
<td></td>
<td>T200515</td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.05M (0.05N)</td>
<td>T20051</td>
<td></td>
<td>T20055</td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.1M (0.1N)</td>
<td>T20101</td>
<td></td>
<td>T20105</td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.2M (0.2N)</td>
<td>T20201</td>
<td></td>
<td>T20205</td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.5M (0.5N)</td>
<td>T20501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Thiosulphate 1.0M (1.0N)</td>
<td>T21001</td>
<td></td>
<td>T21005</td>
</tr>
<tr>
<td>Sodium Thiosulphate 2.0M (2.0N)</td>
<td>T22001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid 0.005M (0.01N)</td>
<td>SU200051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid 0.01M (0.02N)</td>
<td>SU20011</td>
<td>SU20015</td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid 0.02M (0.04N)</td>
<td>SU20041</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid 0.025M (0.05N)</td>
<td>SU200251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid 0.0416M (0.0832N)</td>
<td>SU2004161</td>
<td>SU2004165</td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid 0.05M (0.1N)</td>
<td>SU20051</td>
<td></td>
<td>SU20055</td>
</tr>
<tr>
<td>Sulphuric Acid 0.1M (0.2N)</td>
<td>SU20101</td>
<td></td>
<td>SU20105</td>
</tr>
<tr>
<td>Sulphuric Acid 0.1275M (0.255N)</td>
<td>SU2012751</td>
<td></td>
<td>SU2012755</td>
</tr>
<tr>
<td>Sulphuric Acid 0.128M (0.256N)</td>
<td>SU201285</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid 0.13M (0.26N)</td>
<td>SU20131</td>
<td></td>
<td>SU20135</td>
</tr>
<tr>
<td>Sulphuric Acid 0.175M (0.350N)</td>
<td>SU20155</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid 0.25M (0.5N)</td>
<td>SU20251</td>
<td></td>
<td>SU20255</td>
</tr>
<tr>
<td>Sulphuric Acid 0.319M (0.638N)</td>
<td>SU203191</td>
<td></td>
<td>SU203195</td>
</tr>
<tr>
<td>Sulphuric Acid 0.5M (1.0N)</td>
<td>SU20501</td>
<td></td>
<td>SU20505</td>
</tr>
<tr>
<td>Sulphuric Acid 0.9M (1.8N)</td>
<td>SU2091</td>
<td></td>
<td>SU2095</td>
</tr>
<tr>
<td>Sulphuric Acid 1.0M (2.0N)</td>
<td>SU21001</td>
<td></td>
<td>SU21005</td>
</tr>
<tr>
<td>Sulphuric Acid 2.0M (4.0N)</td>
<td>SU222001</td>
<td>SU2200J</td>
<td></td>
</tr>
<tr>
<td>Sulphuric Acid 2.5M (5.0N)</td>
<td>SU22501</td>
<td></td>
<td>SU22505</td>
</tr>
<tr>
<td>Sulphuric Acid 3.0M (6.0N)</td>
<td>SU23001</td>
<td></td>
<td>SU23005</td>
</tr>
<tr>
<td>Sulphuric Acid 5.0M (10.0N)</td>
<td>SU25001</td>
<td></td>
<td>SU25005</td>
</tr>
<tr>
<td>Sulphuric Acid 5.0M (10.0N) Special Specific Preparation</td>
<td>SU2500-SP1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetra Butylammonium Fluoride 1M in THF CA 5% Water</td>
<td></td>
<td></td>
<td>TBAF125</td>
</tr>
<tr>
<td>Tetra Butylammonium Phosphate 0.5M conc in HPLC Grade water</td>
<td></td>
<td></td>
<td>TBAP1L</td>
</tr>
<tr>
<td>Zinc Chloride 0.1M (0.1N)</td>
<td>ZNCL20101</td>
<td></td>
<td>ZNCL20105</td>
</tr>
<tr>
<td>Zinc Chloride 0.5M (0.5N)</td>
<td>ZNCL20501</td>
<td></td>
<td>ZNCL20505</td>
</tr>
<tr>
<td>Zinc Sulphate 0.02M (0.02N)</td>
<td>ZS021</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc Sulphate 0.05M (0.05N)</td>
<td>ZNS000501</td>
<td></td>
<td>ZNS000505</td>
</tr>
<tr>
<td>Zinc Sulphate 0.1M (0.1N)</td>
<td>ZS011</td>
<td></td>
<td>ZNS00105</td>
</tr>
</tbody>
</table>
Concentrated Volumetric Solutions

Each Ampoule is supplied in its own box, full instructions are printed on the box.

<table>
<thead>
<tr>
<th>Description</th>
<th>Ampoule to make 1L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid 1.0M (1.0N)</td>
<td>CHC101L</td>
</tr>
<tr>
<td>Ammonia 0.1M (0.1N)</td>
<td>NH4C011L</td>
</tr>
<tr>
<td>Ammonia 1.0M (1.0N)</td>
<td>NH4C101L</td>
</tr>
<tr>
<td>Ammonium Thiocyanate 0.1M (0.1N)</td>
<td>NHTC011L</td>
</tr>
<tr>
<td>EDTA (DiSodium salt) 0.01M (0.02N)</td>
<td>EDC0011L</td>
</tr>
<tr>
<td>EDTA (DiSodium salt) 0.05M (0.05N)</td>
<td>ETC0051L</td>
</tr>
<tr>
<td>EDTA (DiSodium salt) 0.1M (0.2N)</td>
<td>EDC0101L</td>
</tr>
<tr>
<td>Hydrochloric Acid 0.1M (0.1N)</td>
<td>HC0101L</td>
</tr>
<tr>
<td>Hydrochloric Acid 0.2M (0.2N)</td>
<td>HC0201L</td>
</tr>
<tr>
<td>Hydrochloric Acid 0.5M (0.5N)</td>
<td>HC0501L</td>
</tr>
<tr>
<td>Hydrochloric Acid 1.0M (1.0N)</td>
<td>HC1001L</td>
</tr>
<tr>
<td>Iodine 0.005M (0.01N)</td>
<td>IC00051L</td>
</tr>
<tr>
<td>Iodine 0.025M (0.05N)</td>
<td>IC025G1L</td>
</tr>
<tr>
<td>Iodine 0.05M (0.1N)</td>
<td>IC0051GL</td>
</tr>
<tr>
<td>Nitric Acid 1.0M (1.0N)</td>
<td>NOC101L</td>
</tr>
<tr>
<td>Oxalic Acid 0.05M (0.1N)</td>
<td>OA20051L</td>
</tr>
<tr>
<td>Potassium Chloride 0.01M (0.01N)</td>
<td>KL0010L</td>
</tr>
<tr>
<td>Potassium Permanganate 0.02M (0.01N)</td>
<td>PCO021GL</td>
</tr>
<tr>
<td>Silver Nitrate 0.0282M (0.0282N)</td>
<td>NC00281L</td>
</tr>
<tr>
<td>Silver Nitrate 0.1M (0.1N)</td>
<td>NC0101L</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.1M (0.1N)</td>
<td>SC0101L</td>
</tr>
<tr>
<td>Sodium Hydroxide 0.5M (0.5N)</td>
<td>SC0501L</td>
</tr>
<tr>
<td>Sodium Hydroxide 1.0M (1.0N)</td>
<td>SC1001L</td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.0125M (0.0125N)</td>
<td>TC00121L</td>
</tr>
<tr>
<td>Sodium Thiosulphate 0.1M (0.1N)</td>
<td>TC0101L</td>
</tr>
<tr>
<td>Sulphuric Acid 0.01M (0.02N)</td>
<td>SUC0011L</td>
</tr>
<tr>
<td>Sulphuric Acid 0.05M (0.1N)</td>
<td>SUC0051L</td>
</tr>
<tr>
<td>Sulphuric Acid 0.5M (1.0N)</td>
<td>SUC051L</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>ALRED01</td>
<td>Alizarine Red Solution 125ml</td>
</tr>
<tr>
<td>ALREDH</td>
<td>Alizarine Red Solution 500ml</td>
</tr>
<tr>
<td>A2V01001</td>
<td>Azo Violet Indicator, 0.1% (w/v) Alcoholic Solution</td>
</tr>
<tr>
<td>1012602</td>
<td>Bromocresol Green - Methyl Red Mixed Indicator</td>
</tr>
<tr>
<td>BRCGM05</td>
<td>Bromocresol Green Indicator, 0.04% (w/v) in Methanol</td>
</tr>
<tr>
<td>BRCG0105</td>
<td>Bromocresol Green Indicator, 0.1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>BRCG010125</td>
<td>Bromocresol Green Indicator, 0.1%</td>
</tr>
<tr>
<td>BRCGIPA0105</td>
<td>Bromocresol Green Indicator, 0.1% (w/v) in IPA</td>
</tr>
<tr>
<td>BRCG105</td>
<td>Bromocresol Green Indicator, 1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>BRCG05</td>
<td>Bromocresol Green Indicator, 0.04%</td>
</tr>
<tr>
<td>BRCG1501</td>
<td>Bromocresol Green Indicator, 1%</td>
</tr>
<tr>
<td>BRPB02M05</td>
<td>Bromocresol Purple - Bromothymol Blue Mixed Indicator 0.2% (w/v) in Methanol</td>
</tr>
<tr>
<td>BRPO1M05</td>
<td>Bromocresol Purple Indicator, 0.1 % (w/w) in Methanol</td>
</tr>
<tr>
<td>BRPO105</td>
<td>Bromocresol Purple Indicator, 0.1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>BRPO405</td>
<td>Bromocresol Purple Indicator, 0.4% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>BRP1M05</td>
<td>Bromocresol Purple Indicator, 1 % (w/w) in Methanol</td>
</tr>
<tr>
<td>BRP105</td>
<td>Bromocresol Purple Indicator, 1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>1012701</td>
<td>Bromocresol Purple Indicator Solution 0.04%</td>
</tr>
<tr>
<td>BRBP00505</td>
<td>Bromophenol Blue Indicator, 0.05% (w/v) in Isopropyl Alcohol</td>
</tr>
<tr>
<td>BRBP00505</td>
<td>Bromophenol Blue Indicator, 0.05% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>BRBP0105</td>
<td>Bromophenol Blue Indicator, 0.1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>BRBP0105</td>
<td>Bromophenol Blue Indicator, 0.1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>BRBP0125</td>
<td>Bromophenol Blue Indicator, 0.04% Aqueous Solution</td>
</tr>
<tr>
<td>BRBP05</td>
<td>Bromophenol Blue Indicator, 0.04% Aqueous Solution</td>
</tr>
<tr>
<td>BRTH00205</td>
<td>Bromothymol Blue Indicator, 0.02% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>BRTHIPA00205</td>
<td>Bromothymol Blue Indicator, 0.02% (w/v) in Isopropyl Alcohol</td>
</tr>
<tr>
<td>BRTHIPA00405</td>
<td>Bromothymol Blue Indicator, 0.04% (w/v) in Isopropyl Alcohol</td>
</tr>
<tr>
<td>BRTH040125</td>
<td>Bromothymol Blue Indicator 0.4%</td>
</tr>
<tr>
<td>BRTH040250</td>
<td>Bromothymol Blue Indicator 0.4%</td>
</tr>
<tr>
<td>BRTH0125</td>
<td>Bromothymol Blue Indicator 0.04%</td>
</tr>
<tr>
<td>BRTH025</td>
<td>Bromothymol Blue Indicator 0.04%</td>
</tr>
<tr>
<td>BRTH05</td>
<td>Bromothymol Blue Indicator 0.04%</td>
</tr>
<tr>
<td>CALM00505</td>
<td>Calmagite Indicator, 0.05% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>CALM0105</td>
<td>Calmagite Indicator, 0.1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>CALM0605</td>
<td>Calmagite Indicator, 0.6% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>CALM105</td>
<td>Calmagite Indicator, 1%</td>
</tr>
<tr>
<td>CAUB0105</td>
<td>Caustic Blue Indicator, 0.1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td><strong>Product No.</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>CPR05</td>
<td>Chlorophenol Red Indicator, 0.04%</td>
</tr>
<tr>
<td>COR105</td>
<td>Congo Red Indicator 0.1%</td>
</tr>
<tr>
<td>COR01005</td>
<td>Congo Red Indicator 0.1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>COR01001</td>
<td>Congo Red Indicator 0.1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>COR1005</td>
<td>Congo Red Indicator, 1% (w/v) Aqueous Solution</td>
</tr>
<tr>
<td>CRER0405</td>
<td>Cresol Red Indicator, 0.04% (w/v) Aqueous</td>
</tr>
<tr>
<td>CRER205</td>
<td>Cresol Red Indicator, 0.2% (w/v) Aqueous</td>
</tr>
<tr>
<td>CVSOLN011</td>
<td>Crystal Violet Indicator, 0.1% (w/v) in Glacial Acetic Acid, for Non Aqueous Titrations</td>
</tr>
<tr>
<td>CVSOLN021</td>
<td>Crystal Violet Indicator, 0.2% (w/v) in Glacial Acetic Acid, for Non Aqueous Titrations</td>
</tr>
<tr>
<td>CVSOLN1</td>
<td>Crystal Violet Indicator 1% in Glacial Acetic Acid</td>
</tr>
<tr>
<td>1022901</td>
<td>Crystal Violet Solution (Non-aqueous indicator)</td>
</tr>
<tr>
<td>DPC05</td>
<td>Diphenylcarbazone 0.1%</td>
</tr>
<tr>
<td>DPCBRBP05</td>
<td>Diphenylcarbazone-Bromophenol Blue Mixed Indicator</td>
</tr>
<tr>
<td>EOW00051</td>
<td>Eosin Y TS, 0.5% (w/v) Aqueous Solution, Adsorption Indicator for Argentometric Titrations</td>
</tr>
<tr>
<td>EOW0011</td>
<td>1% Eosin Y in Purified water</td>
</tr>
<tr>
<td>EOW0015</td>
<td>1% Eosin Y in Purified water</td>
</tr>
<tr>
<td>EBB05</td>
<td>Indicator Solution Erichrome Blue Black R</td>
</tr>
<tr>
<td>EBB1</td>
<td>Indicator Solution Erichrome Blue Black R</td>
</tr>
<tr>
<td>EBB5</td>
<td>Indicator Solution Erichrome Blue Black R</td>
</tr>
<tr>
<td>EBB10</td>
<td>Indicator Solution Erichrome Blue Black R</td>
</tr>
<tr>
<td>EBT05</td>
<td>Eriochrome Black T Indicator in Triethanolamine, Water Hardness Indicator</td>
</tr>
<tr>
<td>EBTNACL105</td>
<td>Eriochrome Black T Indicator, 1% (w/w) in Sodium Chloride</td>
</tr>
<tr>
<td>EBTNACL0205</td>
<td>Eriochrome Blue Black R Indicator, 0.2% (w/w) in Sodium Chloride</td>
</tr>
<tr>
<td>ETV101M05</td>
<td>Ethyl Violet Indicator, 0.1% w/v in 50% Methanol</td>
</tr>
<tr>
<td>FS010105</td>
<td>Fehlings Solution No. 1</td>
</tr>
<tr>
<td>FS0101</td>
<td>Fehlings Solution No. 1</td>
</tr>
<tr>
<td>FS01015</td>
<td>Fehlings Solution No. 1</td>
</tr>
<tr>
<td>FS010205</td>
<td>Fehlings Solution No. 2</td>
</tr>
<tr>
<td>FS0102</td>
<td>Fehlings Solution No. 2</td>
</tr>
<tr>
<td>FS01025</td>
<td>Fehlings Solution No. 2</td>
</tr>
<tr>
<td>FEAL11</td>
<td>Indicator Solution Ferric Alum</td>
</tr>
<tr>
<td>1037702</td>
<td>European Pharmacopoeia Reagent Ferric Ammonium Sulphate R2</td>
</tr>
<tr>
<td>PFS1</td>
<td>Indicator Solution Ferroin Indicator</td>
</tr>
<tr>
<td>FEI0011</td>
<td>Ferroin Indicator, 0.01 Molar</td>
</tr>
<tr>
<td>FEI00251</td>
<td>Ferroin Indicator, 0.025 Molar</td>
</tr>
<tr>
<td>TB04F</td>
<td>Indicator Thymol Blue Alcoholic Solution 0.04%</td>
</tr>
<tr>
<td>TBO8F</td>
<td>Indicator Thymol Blue, 0.08% (w/v) in Methanol</td>
</tr>
</tbody>
</table>
# Indicator Solutions

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDCA05</td>
<td>Indicator Indigo Carmine</td>
<td>500ml</td>
</tr>
<tr>
<td>FEA2S</td>
<td>Indicator Solution Iron Alum (Volhard)</td>
<td>250ml</td>
</tr>
<tr>
<td>MGIO00505</td>
<td>Indicator Malachite Green, 0.05% (w/v) Aqueous Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>MBTHI00505</td>
<td>MBTH Indicator, 0.05%</td>
<td>500ml</td>
</tr>
<tr>
<td>MBTHI0505</td>
<td>MBTH Indicator, 0.5% (w/v) Aqueous Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>MCP00405</td>
<td>Indicator m-Cresol Purple, 0.04% (w/v) Aqueous</td>
<td>500ml</td>
</tr>
<tr>
<td>MCP0105</td>
<td>Indicator m-Cresol Purple, 0.1% (w/v) Aqueous</td>
<td>500ml</td>
</tr>
<tr>
<td>MCP05</td>
<td>Indicator m-Cresol Purple, 0.4%</td>
<td>500ml</td>
</tr>
<tr>
<td>MTPSIO1</td>
<td>Indicator Metalphthalein-Screened RS</td>
<td>100ml</td>
</tr>
<tr>
<td>MOXCI05</td>
<td>Indicator Methyl Orange - Xylene Cyanol Indicator Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>MTR050125</td>
<td>Indicator Methyl Orange 0.1%</td>
<td>125ml</td>
</tr>
<tr>
<td>MTR05025</td>
<td>Indicator Methyl Orange Alcoholic Solution 0.1%</td>
<td>250ml</td>
</tr>
<tr>
<td>M004F</td>
<td>Indicator Methyl Orange 0.04%</td>
<td>500ml</td>
</tr>
<tr>
<td>MPRIPA1505</td>
<td>Indicator Methyl Purple, in dilute IPA (15% v/v)</td>
<td>500ml</td>
</tr>
<tr>
<td>MTR060125</td>
<td>Indicator Methyl Red 0.1%</td>
<td>125ml</td>
</tr>
<tr>
<td>MTR06025</td>
<td>Indicator Methyl Red Alcoholic Solution 0.1%</td>
<td>250ml</td>
</tr>
<tr>
<td>105S102</td>
<td>Methyl Red Indicator Solution 0.02%</td>
<td>100ml</td>
</tr>
<tr>
<td>MTBLU0050250</td>
<td>Indicator Methylene Blue, 0.05%</td>
<td>250ml</td>
</tr>
<tr>
<td>MTBLU010250</td>
<td>Indicator Methylene Blue, 0.1%</td>
<td>250ml</td>
</tr>
<tr>
<td>MTBLU10250</td>
<td>Indicator Methylene Blue 1%</td>
<td>250ml</td>
</tr>
<tr>
<td>PR045</td>
<td>Indicator Phenol Red 0.04% Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>PR105</td>
<td>Indicator Phenol Red 0.1% (w/v) Aqueous Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>PR505</td>
<td>Indicator Phenol Red 0.5% (w/v) Aqueous Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>PR1005</td>
<td>Indicator Phenol Red 1% (w/v) Aqueous Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>1063601</td>
<td>Phenol Red Indicator Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>IPT01J</td>
<td>Indicator Phenolphthalein 0.1%</td>
<td>100ml</td>
</tr>
<tr>
<td>IPT01D</td>
<td>Indicator Phenolphthalein 0.1%</td>
<td>250ml</td>
</tr>
<tr>
<td>IPT01H</td>
<td>Indicator Phenolphthalein 0.1%</td>
<td>500ml</td>
</tr>
<tr>
<td>IPT01F</td>
<td>Indicator Phenolphthalein 0.1%</td>
<td>1L</td>
</tr>
<tr>
<td>IPT02H</td>
<td>Indicator Phenolphthalein 0.2%</td>
<td>500ml</td>
</tr>
<tr>
<td>IPT05H</td>
<td>Indicator Phenolphthalein 0.5%</td>
<td>500ml</td>
</tr>
<tr>
<td>IPT05F</td>
<td>Indicator Phenolphthalein Alcoholic Solution 0.5%</td>
<td>1L</td>
</tr>
<tr>
<td>IPT05W</td>
<td>Indicator Phenolphthalein Alcoholic Solution 0.5%</td>
<td>2.5L</td>
</tr>
<tr>
<td>IPT10125</td>
<td>Indicator Phenolphthalein 1%</td>
<td>125ml</td>
</tr>
<tr>
<td>IPT1025</td>
<td>Indicator Phenolphthalein 1%</td>
<td>250ml</td>
</tr>
<tr>
<td>IPT10H</td>
<td>Indicator Phenolphthalein 1%</td>
<td>500ml</td>
</tr>
<tr>
<td>IPT10F</td>
<td>Indicator Phenolphthalein 1%</td>
<td>1L</td>
</tr>
<tr>
<td>IPT10F-D</td>
<td>Indicator Phenolphthalein 1% (in IMS and HDPE bottle)</td>
<td>1L</td>
</tr>
<tr>
<td>IPT10W</td>
<td>Indicator Phenolphthalein Alcoholic Solution 1.0%</td>
<td>2.5L</td>
</tr>
<tr>
<td>IPT201</td>
<td>Indicator Solution Phenolphthalein 2% in Ethanol</td>
<td>1L</td>
</tr>
<tr>
<td>IPT205</td>
<td>Indicator Solution Phenolphthalein 2% in Ethanol</td>
<td>5L</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>IPT2025</td>
<td>Indicator Solution Phenolphthalein 2% in Ethanol</td>
<td>25L</td>
</tr>
<tr>
<td>IPT16W</td>
<td>Indicator Phenolphthalein 1.6%</td>
<td>2.5L</td>
</tr>
<tr>
<td>PCS5</td>
<td>Indicator Solution Potassium Chromate 5%</td>
<td>500ml</td>
</tr>
<tr>
<td>MOS05</td>
<td>Indicator Screened Methyl Orange Alcoholic Solution 0.1%</td>
<td>500ml</td>
</tr>
<tr>
<td>ST105</td>
<td>Starch Solution 1%</td>
<td>500ml</td>
</tr>
<tr>
<td>ST1001</td>
<td>Starch Solution 1%</td>
<td>1L</td>
</tr>
<tr>
<td>ST205</td>
<td>Starch Indicator 2%</td>
<td>500ml</td>
</tr>
<tr>
<td>ST0055</td>
<td>Starch Indicator, 0.05% (w/v)</td>
<td>500ml</td>
</tr>
<tr>
<td>ST0101</td>
<td>Starch Indicator 0.1%</td>
<td>1L</td>
</tr>
<tr>
<td>ST0205</td>
<td>Starch Indicator, 0.2% (w/v) Aqueous Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>ST0255</td>
<td>Starch Indicator, 0.25% (w/v) Aqueous Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>ST0305</td>
<td>Starch Indicator, 0.3% (w/v)</td>
<td>500ml</td>
</tr>
<tr>
<td>ST0505</td>
<td>Starch Indicator, 0.5% (w/v)</td>
<td>500ml</td>
</tr>
<tr>
<td>ST0505P</td>
<td>Starch Indicator, with 0.5% Potassium Iodide</td>
<td>500ml</td>
</tr>
<tr>
<td>ST050P</td>
<td>Starch Indicator, with 5% Potassium Iodide</td>
<td>500ml</td>
</tr>
<tr>
<td>SO0405</td>
<td>Indicator Sulfo Orange, 0.04%</td>
<td>500ml</td>
</tr>
<tr>
<td>SO405</td>
<td>Indicator Sulfo Orange, 0.4%</td>
<td>500ml</td>
</tr>
<tr>
<td>SO0105</td>
<td>Indicator Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>1090701</td>
<td>Thymolphthalein 0.05% Indicator Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>UN1005</td>
<td>Universal Indicator Solution</td>
<td>50 mL</td>
</tr>
<tr>
<td>UN101</td>
<td>Universal Indicator Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>UN105</td>
<td>Universal Indicator Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>UN10025</td>
<td>Universal Indicator Solution</td>
<td>2.5L</td>
</tr>
<tr>
<td>UNB1010</td>
<td>Universal Indicator Solution</td>
<td>10L</td>
</tr>
<tr>
<td>UN1025</td>
<td>Universal Indicator Solution</td>
<td>25L</td>
</tr>
<tr>
<td>VANGSH</td>
<td>Van Gieson Stain 500ml</td>
<td>500ml</td>
</tr>
<tr>
<td>TAINDO250</td>
<td>TA Indicator - Phenolphthalein Free</td>
<td>250ml</td>
</tr>
<tr>
<td>TAINDO500</td>
<td>TA Indicator - Phenolphthalein Free</td>
<td>500ml</td>
</tr>
<tr>
<td>TAINDO1000</td>
<td>TA Indicator - Phenolphthalein Free</td>
<td>1L</td>
</tr>
<tr>
<td>TASHI010</td>
<td>Indicator Solution for Mixed Sulphur</td>
<td>100ml</td>
</tr>
<tr>
<td>TASHI025</td>
<td>Tashiro Indicator (Methyl Red/Methylene Blue in Ethanol)</td>
<td>250ml</td>
</tr>
<tr>
<td>TASHI050H</td>
<td>Tashiro Indicator (Methyl Red/Methylene Blue in Ethanol)</td>
<td>500ml</td>
</tr>
<tr>
<td>TASHI100F</td>
<td>Tashiro Indicator (Methyl Red/Methylene Blue in Ethanol)</td>
<td>1L</td>
</tr>
<tr>
<td>TPHH010125</td>
<td>Thymolphthalein Indicator 0.1%</td>
<td>125ml</td>
</tr>
<tr>
<td>TECM101</td>
<td>Tecator Mixed Indicator</td>
<td>100ml</td>
</tr>
<tr>
<td>ADW</td>
<td>Indicator Acid Decolouriser</td>
<td>2.5L</td>
</tr>
<tr>
<td>KR01</td>
<td>Indicator Kovac’s Indole Reagent</td>
<td>100ml</td>
</tr>
<tr>
<td>PAN0125</td>
<td>PAN Indicator 0.1%</td>
<td>125ml</td>
</tr>
</tbody>
</table>
Total Acid Number/Total Base Number Standards & Reagents

The products listed in this section for Total Acid Number (TAN) and Total Base Number (TBN) are used in procedures to test and control the acidic or basic constituents in petroleum, lubricants, biodiesel or blends of biodiesel.

Total Acid Number (TAN)

The procedures for the measurement of this parameter (laid down in various ASTM methods) vary depending on sample solubility in materials such as Toluene or Propan-2-ol, the dissociation constants of the acids in water, or the nature of the test sample. Therefore, the methodology used for lubricants may be different from the methodology used for biodiesel. In new and used oils the constituents that may be considered to have acidic characteristics include organic acids, inorganic acids, esters, phenolic compounds, lactones, resins, salts of heavy metals, acid salts of polybasic acids, and additives such as inhibitors and detergents.

The test method is used to indicate relative changes that occur in oil during use under oxidising conditions regardless of the colour or other properties of the oil. The method is also used as a guide in the quality control of lubricating oil formulations or as a measure of lubricant degradation. It is not intended to measure an absolute acidic property that can be used to predict performance of oil under working conditions. There is no known relationship between corrosion of bearings and acid number. The methodology of performing the test involves dissolving the sample in a titration solvent and titrating potentiometrically as an acid/base titration with alcoholic potassium hydroxide.

Total Base Number (TBN)

The constituents of oils and lubricants that may be considered to have basic characteristics include organic bases, inorganic bases, amino compounds, salts of weak acids (soaps), basic salts of polyacidic bases and salts of heavy metals. The test methodology involves dissolving the sample in an anhydrous mixture of chlorobenzene/glacial acetic acid and titrating potentiometrically with a solution of perchloric acid in glacial acetic acid. Both new and used petroleum products can contain basic constituents that are present as additives. The test is sometimes used as a measure of lubricant degradation but any condemning limits based on the test must be established on an individual basis.

The following list of products are a selection of Solvents, Titrants, Standards, Buffers and Electrolytes specifically formulated for the testing of TAN and TBN using ASTM methods D664 and D2896 respectively.
### Reagents, Titrants & Standards for ASTM D664: Acid Number of Petroleum Products by Potentiometric Titration

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFSIET</td>
<td>Electrolyte: 1M Lithium Chloride in Ethanol</td>
<td>100ml</td>
</tr>
<tr>
<td>104025</td>
<td>Buffer pH 4.00 - 25°C</td>
<td>1L</td>
</tr>
<tr>
<td>107025</td>
<td>Buffer pH 7.00 - 25°C</td>
<td>1L</td>
</tr>
<tr>
<td>111025</td>
<td>Buffer pH 11.00 - 25°C</td>
<td>1L</td>
</tr>
<tr>
<td>PH20101</td>
<td>0.1M Hydrochloric Acid in propan-2-ol</td>
<td>1L</td>
</tr>
<tr>
<td>PH201005</td>
<td>0.1M Hydrochloric Acid in propan-2-ol</td>
<td>500ml</td>
</tr>
<tr>
<td>KOH01F</td>
<td>0.1M Potassium Hydroxide in propan-2-ol</td>
<td>1L</td>
</tr>
<tr>
<td>KOH01H</td>
<td>0.1M Potassium Hydroxide in propan-2-ol</td>
<td>500ml</td>
</tr>
<tr>
<td>KOH001F</td>
<td>0.01M Potassium Hydroxide in propan-2-ol</td>
<td>1L</td>
</tr>
<tr>
<td>KOH001H</td>
<td>0.01M Potassium Hydroxide in propan-2-ol</td>
<td>500ml</td>
</tr>
<tr>
<td>PH2010F</td>
<td>TAN Titration Solvent. Per litre: 500mls toluene, 495mls propan-2-ol, 5mls water</td>
<td>1L</td>
</tr>
<tr>
<td>PH2010H</td>
<td>TAN Titration Solvent. Per litre: 500mls toluene, 495mls propan-2-ol, 5mls water</td>
<td>2.5L</td>
</tr>
<tr>
<td>TANSOLVF10</td>
<td>TAN Titration Solvent. Per litre: 500mls toluene, 495mls propan-2-ol, 5mls water</td>
<td>10L</td>
</tr>
<tr>
<td>TANSOLVF20</td>
<td>TAN Titration Solvent. Per litre: 500mls toluene, 495mls propan-2-ol, 5mls water</td>
<td>20L</td>
</tr>
</tbody>
</table>

### Reagents, Titrants & Standards for ASTM D2896: Base Number of Petroleum Products by Potentiometric Titration

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2010F</td>
<td>0.1M Perchloric Acid in glacial acetic acid</td>
<td>1L</td>
</tr>
<tr>
<td>P2010H</td>
<td>0.1M Perchloric Acid in glacial acetic acid</td>
<td>500ml</td>
</tr>
<tr>
<td>EFSNACL04</td>
<td>Electrolyte: saturated sodium perchlorate in glacial acetic acid</td>
<td>100ml</td>
</tr>
<tr>
<td>TBSNSOLV1F</td>
<td>TBN Titration solvent - 2:1 chlorobenzene and glacial acetic acid</td>
<td>1L</td>
</tr>
<tr>
<td>TBSNSOLV1W</td>
<td>TBN Titration solvent - 2:1 chlorobenzene and glacial acetic acid</td>
<td>2.5L</td>
</tr>
<tr>
<td>TBSNSOLV1F10</td>
<td>TBN Titration solvent - 2:1 chlorobenzene and glacial acetic acid</td>
<td>10L</td>
</tr>
<tr>
<td>TBSNSOLV1F20</td>
<td>TBN Titration solvent - 2:1 chlorobenzene and glacial acetic acid</td>
<td>20L</td>
</tr>
<tr>
<td>NAAACD10F</td>
<td>0.1N Sodium Acetate in glacial acetic acid</td>
<td>1L</td>
</tr>
<tr>
<td>104025</td>
<td>Buffer pH 4.00 - 25°C</td>
<td>1L</td>
</tr>
<tr>
<td>107025</td>
<td>Buffer pH 7.00 - 25°C</td>
<td>1L</td>
</tr>
<tr>
<td>111025</td>
<td>Buffer pH 11.00 - 25°C</td>
<td>1L</td>
</tr>
<tr>
<td>TBNSOLV2F</td>
<td>TBN Titration solvent - 0.4M tetraethylammonium bromide in ethylene glycol</td>
<td>1L</td>
</tr>
<tr>
<td>TBNSOLV2W</td>
<td>TBN Titration solvent - 0.4M tetraethylammonium bromide in ethylene glycol</td>
<td>2.5L</td>
</tr>
</tbody>
</table>
**TAN Standards: All in a Synthetic Base Oil Matrix**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETAN0.5</td>
<td>TAN standard: 0.5 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETAN01</td>
<td>TAN standard: 0.1mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETAN01R</td>
<td>TAN standard: 0.1mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETAN01S</td>
<td>TAN standard: 0.1mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETAN05</td>
<td>TAN standard: 0.5 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETAN05R</td>
<td>TAN standard: 0.5 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETAN05S</td>
<td>TAN standard: 0.5 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETAN10</td>
<td>TAN standard: 1.0 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETAN10R</td>
<td>TAN standard: 1.0 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETAN10S</td>
<td>TAN standard: 1.0 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETAN15</td>
<td>TAN standard: 1.5mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETAN15R</td>
<td>TAN standard: 1.5 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETAN15S</td>
<td>TAN standard: 1.5 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETAN20</td>
<td>TAN standard: 2.0mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETAN20R</td>
<td>TAN standard: 2.0 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETAN20S</td>
<td>TAN standard: 2.0 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETAN25</td>
<td>TAN standard: 2.5mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETAN25R</td>
<td>TAN standard: 2.5 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETAN25S</td>
<td>TAN standard: 2.5 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETAN30</td>
<td>TAN standard: 3.0mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETAN30R</td>
<td>TAN standard: 3.0 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETAN30S</td>
<td>TAN standard: 3.0 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETAN45</td>
<td>TAN standard: 4.5 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETAN45R</td>
<td>TAN standard: 4.5 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETAN45S</td>
<td>TAN standard: 4.5 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
</tbody>
</table>
# TBN Standards: All in a Synthetic Base Oil Matrix

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETBN1</td>
<td>TBN Standard: 1.0 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETBN1R</td>
<td>TBN Standard: 1.0 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETBN1S</td>
<td>TBN Standard: 1.0 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETBN3</td>
<td>TBN Standard: 3.0 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETBN3R</td>
<td>TBN Standard: 3.0 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETBN3S</td>
<td>TBN Standard: 3.0 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETBN6</td>
<td>TBN Standard: 6.0 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETBN6R</td>
<td>TBN Standard: 6.0 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETBN6S</td>
<td>TBN Standard: 6.0 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETBN10</td>
<td>TBN Standard: 10 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETBN10R</td>
<td>TBN Standard: 10 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETBN10S</td>
<td>TBN Standard: 10 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETBN15</td>
<td>TBN Standard: 15 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETBN15R</td>
<td>TBN Standard: 15 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETBN15S</td>
<td>TBN Standard: 15 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETBN30</td>
<td>TBN Standard: 30 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETBN30R</td>
<td>TBN Standard: 30 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETBN30S</td>
<td>TBN Standard: 30 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETBN40</td>
<td>TBN Standard: 40 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETBN40R</td>
<td>TBN Standard: 40 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETBN40S</td>
<td>TBN Standard: 40 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
<tr>
<td>RETBN70</td>
<td>TBN Standard: 70 mg/g KOH</td>
<td>50g</td>
</tr>
<tr>
<td>RETBN70R</td>
<td>TBN Standard: 70 mg/g KOH</td>
<td>100g</td>
</tr>
<tr>
<td>RETBN70S</td>
<td>TBN Standard: 70 mg/g KOH</td>
<td>3 x 100g</td>
</tr>
</tbody>
</table>
Reagecon manufactures the full range of ASTM, Saybolt, Platinum-Cobalt, Gardner, European Pharmacopeia and United States Pharmacopeia Colour Standards for use with ASTM, APHA, ACS, European and United States Pharmacopeia standard methods. The ASTM standard methods include D1500, D6045 and D1209. The products can be used to calibrate, control, qualify and validate colour measurement instruments.

The products range from:
- ASTM Colour Standard Sample A05- A7
- Saybolt Colour Standards S+30 to S-15
- Platinum-Cobalt Scale No. 0 - No. 1000
- Gardner Colour Standards GARD02-GARD18
- European Pharmacopeia Standards (Opalescence, Primary and Standard Solutions)

These products are prepared gravimetrically on a weight/weight basis. Both solute and solvent are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025. The concentration of each standard is verified using a high performance spectrophotometer. The calibration of the spectrophotometer is controlled using high purity ISO Guide 34 accredited spectrophotometric standards.
### ASTM Colour Standards

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 100ml</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM Colour Standard less than 0.5</td>
<td>ASTMA051</td>
<td>ASTMA055</td>
</tr>
<tr>
<td>ASTM Colour Standard A1</td>
<td>ASTMA101</td>
<td>ASTMA105</td>
</tr>
<tr>
<td>ASTM Colour Standard A3</td>
<td>ASTMA301</td>
<td>ASTMA305</td>
</tr>
<tr>
<td>ASTM Colour Standard A5</td>
<td>ASTMA501</td>
<td>ASTMA505</td>
</tr>
<tr>
<td>ASTM Colour Standard A7</td>
<td>ASTMA701</td>
<td>ASTMA705</td>
</tr>
</tbody>
</table>

### Saybolt Colour Standards

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 100ml</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour Standard Saybolt +30</td>
<td>SAYP301</td>
<td>SAYP305</td>
</tr>
<tr>
<td>Colour Standard Saybolt +25</td>
<td>SAYP251</td>
<td>SAYP255</td>
</tr>
<tr>
<td>Colour Standard Saybolt +19</td>
<td>SAYP191</td>
<td>SAYP195</td>
</tr>
<tr>
<td>Colour Standard Saybolt +15</td>
<td>SAYP151</td>
<td>SAYP155</td>
</tr>
<tr>
<td>Colour Standard Saybolt +12</td>
<td>SAYP121</td>
<td>SAYP125</td>
</tr>
<tr>
<td>Colour Standard Saybolt +0</td>
<td>SAYP01</td>
<td>SAYP05</td>
</tr>
<tr>
<td>Colour Standard Saybolt -10</td>
<td>SAYN101</td>
<td>SAYN105</td>
</tr>
<tr>
<td>Colour Standard Saybolt -15</td>
<td>SAYN151</td>
<td>SAYN155</td>
</tr>
</tbody>
</table>

### Standard Solutions

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP703</td>
<td>European Pharmacopoeia Standard Solution B (Brown)</td>
<td>100ml</td>
</tr>
<tr>
<td>EP704</td>
<td>European Pharmacopoeia Standard Solution BY (Brownish Yellow)</td>
<td>100ml</td>
</tr>
<tr>
<td>EP705</td>
<td>European Pharmacopoeia Standard Solution GY (Greenish Yellow)</td>
<td>100ml</td>
</tr>
<tr>
<td>EP706</td>
<td>European Pharmacopoeia Standard Solution Y (Yellow)</td>
<td>100ml</td>
</tr>
<tr>
<td>EP707</td>
<td>European Pharmacopoeia Standard Solution R (Red)</td>
<td>100ml</td>
</tr>
</tbody>
</table>

### Reagents as Outlined in Chapter 2 of European Pharmacopoeia

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPPO501</td>
<td>European Pharmacopoeia Reagent Primary Opalescence Suspension</td>
<td>100ml</td>
</tr>
</tbody>
</table>
### Platinum-Cobalt Colour Standards* (Hazen)

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZ0</td>
<td>Colour Standard Platinum Cobalt 0 (0 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ5</td>
<td>Colour Standard Platinum Cobalt 5 (5 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ10</td>
<td>Colour Standard Platinum Cobalt 10 (10 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ15</td>
<td>Colour Standard Platinum Cobalt 15 (15 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ20</td>
<td>Colour Standard Platinum Cobalt 20 (20 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ25</td>
<td>Colour Standard Platinum Cobalt 25 (25 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ30</td>
<td>Colour Standard Platinum Cobalt 30 (30 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ40</td>
<td>Colour Standard Platinum Cobalt 40 (40 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ50</td>
<td>Colour Standard Platinum Cobalt 50 (50 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ505</td>
<td>Colour Standard Platinum Cobalt 50 (50 Hazen units)</td>
<td>5L</td>
</tr>
<tr>
<td>HAZ80</td>
<td>Colour Standard Platinum Cobalt 80 (80 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ100</td>
<td>Colour Standard Platinum Cobalt 100 (100 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ1005</td>
<td>Colour Standard Platinum Cobalt 100 (100 Hazen units)</td>
<td>5L</td>
</tr>
<tr>
<td>HAZ150</td>
<td>Colour Standard Platinum Cobalt 150 (150 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ1505</td>
<td>Colour Standard Platinum Cobalt 150 (150 Hazen units)</td>
<td>5L</td>
</tr>
<tr>
<td>HAZ200</td>
<td>Colour Standard Platinum Cobalt 200 (200 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ2005</td>
<td>Colour Standard Platinum Cobalt 200 (200 Hazen units)</td>
<td>5L</td>
</tr>
<tr>
<td>HAZ250</td>
<td>Colour Standard Platinum Cobalt 250 (250 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ400</td>
<td>Colour Standard Platinum Cobalt 400 (400 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ500-500ml</td>
<td>Colour Standard Platinum Cobalt 500 (500 Hazen units)</td>
<td>500ml</td>
</tr>
<tr>
<td>HAZ500</td>
<td>Colour Standard Platinum Cobalt 500 (500 Hazen units)</td>
<td>1L</td>
</tr>
<tr>
<td>HAZ5005</td>
<td>Colour Standard Platinum Cobalt 500 (500 Hazen units)</td>
<td>5L</td>
</tr>
<tr>
<td>HAZ1000</td>
<td>Colour Standard Platinum Cobalt 1000 (1000 Hazen units)</td>
<td>1L</td>
</tr>
</tbody>
</table>

* Standards with intermediate Platinum-Cobalt values are available on request

### USP (631) Colour Standard

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>USPCS101</td>
<td>Colour Standard USP (631) Cupric Sulfate CS</td>
<td>100ml</td>
</tr>
<tr>
<td>USPCS102</td>
<td>Colour Standard USP (631) Ferric Chloride CS</td>
<td>100ml</td>
</tr>
<tr>
<td>USPCS103</td>
<td>Colour Standard USP (631) Cobaltous Chloride CS</td>
<td>100ml</td>
</tr>
</tbody>
</table>
**Gardner Colour Standards**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GARD011</td>
<td>Colour Standard Gardner 1</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD021</td>
<td>Colour Standard Gardner 2</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD02</td>
<td>Colour Standard Gardner 2</td>
<td>500ml</td>
</tr>
<tr>
<td>GARD031</td>
<td>Colour Standard Gardner 3</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD041</td>
<td>Colour Standard Gardner 4</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD04</td>
<td>Colour Standard Gardner 4</td>
<td>500ml</td>
</tr>
<tr>
<td>GARD051</td>
<td>Colour Standard Gardner 5</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD061</td>
<td>Colour Standard Gardner 6</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD06</td>
<td>Colour Standard Gardner 6</td>
<td>500ml</td>
</tr>
<tr>
<td>GARD071</td>
<td>Colour Standard Gardner 7</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD081</td>
<td>Colour Standard Gardner 8</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD08</td>
<td>Colour Standard Gardner 8</td>
<td>500ml</td>
</tr>
<tr>
<td>GARD091</td>
<td>Colour Standard Gardner 9</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD101</td>
<td>Colour Standard Gardner 10</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD10</td>
<td>Colour Standard Gardner 10</td>
<td>500ml</td>
</tr>
<tr>
<td>GARD111</td>
<td>Colour Standard Gardner 11</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD121</td>
<td>Colour Standard Gardner 12</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD12</td>
<td>Colour Standard Gardner 12</td>
<td>500ml</td>
</tr>
<tr>
<td>GARD131</td>
<td>Colour Standard Gardner 13</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD141</td>
<td>Colour Standard Gardner 14</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD14</td>
<td>Colour Standard Gardner 14</td>
<td>500ml</td>
</tr>
<tr>
<td>GARD151</td>
<td>Colour Standard Gardner 15</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD161</td>
<td>Colour Standard Gardner 16</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD16</td>
<td>Colour Standard Gardner 16</td>
<td>500ml</td>
</tr>
<tr>
<td>GARD171</td>
<td>Colour Standard Gardner 17</td>
<td>100ml</td>
</tr>
<tr>
<td>GARD181</td>
<td>Colour Standard Gardner 18</td>
<td>100ml</td>
</tr>
</tbody>
</table>

** Standards with intermediate Gardner values are available on request **

**Colouration - Primary Solutions**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPBS01</td>
<td>European Pharmacopoeia Reagent Coloration - Blue</td>
<td>100ml</td>
</tr>
<tr>
<td>EPRS01</td>
<td>European Pharmacopoeia Reagent Coloration - Red</td>
<td>100ml</td>
</tr>
<tr>
<td>EPYS01</td>
<td>European Pharmacopoeia Reagent Coloration - Yellow</td>
<td>100ml</td>
</tr>
</tbody>
</table>
The product range includes:

- Linearity Standards
- Wavelength Standards
- Stray Light Standards
- Bandwidth Standards

These products are prepared gravimetrically on a weight/weight basis. Both solute and solvent are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for calibration of laboratory balances (INAB Ref: 265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025. The certified values of each standard are verified using a high performance spectrophotometer calibrated with NIST traceable, ISO Guide 34 Certified Standards.

### Summary of Features & Benefits:

<table>
<thead>
<tr>
<th>Commercial Benefits</th>
<th>Technical Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Can be used with all UV-VIS Spectrophotometers</td>
<td>• National Institute of Standards and Technology (NIST) Traceable</td>
</tr>
<tr>
<td>• Permanently sealed cuvettes available</td>
<td>• Produced with salts sourced directly from NIST where applicable</td>
</tr>
<tr>
<td>• No Waste</td>
<td>• All standards certified at multiple slit widths</td>
</tr>
<tr>
<td>• Ready to Use</td>
<td>• Certified measurement uncertainties</td>
</tr>
<tr>
<td>• Standards also available in 100ml amber bottles - economy of scale</td>
<td>• Consistency of product - Independent, Traceable, Certified</td>
</tr>
<tr>
<td></td>
<td>• Certificates of Analysis and Safety Data Sheets available online</td>
</tr>
</tbody>
</table>
## Linearity Standards @ 235, 257, 313 & 350nm

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSPEC1022</td>
<td>Potassium Dichromate Linearity Set With Blank in Sealed Cuvettes</td>
<td>0mg/l, 20mg/l, 40mg/l, 60mg/l, 80mg/l, 100mg/l</td>
<td>6 x Permanently sealed UV Cuvettes</td>
</tr>
<tr>
<td>RSPEC0022</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>20mg/l</td>
<td>2 x Permanently Sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0023</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>40mg/l</td>
<td>2 x Permanently Sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0024</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>60mg/l</td>
<td>2 x Permanently Sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0025</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>80mg/l</td>
<td>2 x Permanently Sealed UV Cuvettes</td>
</tr>
<tr>
<td>RSPEC0026</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>100mg/l</td>
<td>2 x Permanently Sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0051</td>
<td>Spectrophotometry Blank 0.001M Perchloric Acid</td>
<td>0mg/l</td>
<td>1 x Permanently Sealed UV Cuvettes</td>
</tr>
<tr>
<td>RSPEC00511</td>
<td>Blank - 0.001M Perchloric Acid</td>
<td>0mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00221</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>20mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00231</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>40mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00241</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>60mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00251</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>80mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00261</td>
<td>Potassium Dichromate Absorbance/Transmission Standard</td>
<td>100mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC0018</td>
<td>Spectrophotometry Potassium Dichromate Absorbance/Transmission Standard - 10mg/l</td>
<td>10mg/l</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0019</td>
<td>Spectrophotometry Potassium Dichromate Absorbance/Transmission Standard - 15mg/l</td>
<td>15mg/l</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0020</td>
<td>Spectrophotometry Potassium Dichromate Absorbance/Transmission Standard - 50mg/l</td>
<td>50mg/l</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC-EP0060</td>
<td>Spectrophotometry Potassium Dichromate Absorbance/Transmission Standard 60mg/l (Ph.Eur)</td>
<td>60mg/l</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC-EP00601</td>
<td>Spectrophotometry Potassium Dichromate Absorbance/Transmission Standard 60mg/l (Ph.Eur)</td>
<td>60mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC-EP0061</td>
<td>Spectrophotometry Potassium Dichromate Absorbance/Transmission Standard 600mg/l (Ph.Eur)</td>
<td>600mg/l</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Concentration</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------------</td>
<td>-----------</td>
</tr>
<tr>
<td>RSPEC-EP00611</td>
<td>Spectrophotometry Potassium Dichromate Absorbance/Transmission Standard 600mg/l (Ph.Eur)</td>
<td>600mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC-EP00751</td>
<td>Spectrophotometry Absorbance/Transmission Standard Blank - 0.005M Sulfuric Acid (Ph.Eur)</td>
<td>100ml Amber Bottle</td>
<td></td>
</tr>
</tbody>
</table>

**Linearity Standards @ 213 & 261nm**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSPEC1027</td>
<td>Nicotinic Acid Linearity Set With Blank Linearity Set With Blank in Sealed Cuvettes</td>
<td>0mg/l, 6mg/l, 12mg/l, 18mg/l, 24mg/l</td>
<td>5 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0027</td>
<td>Nicotinic Acid Absorbance/Transmission Standard</td>
<td>6mg/l</td>
<td>2 x Permanently Sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0028</td>
<td>Nicotinic Acid Absorbance/Transmission Standard</td>
<td>12mg/l</td>
<td>2x Permanently Sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0029</td>
<td>Nicotinic Acid Absorbance/Transmission Standard</td>
<td>18mg/l</td>
<td>2 x Permanently Sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0030</td>
<td>Nicotinic Acid Absorbance/Transmission Standard</td>
<td>24mg/l</td>
<td>2 x Permanently Sealed UV Cuvette (including blank)</td>
</tr>
<tr>
<td>RSPEC0052</td>
<td>Spectrophotometry Blank 0.1M Hydrochloric Acid</td>
<td>0mg/l</td>
<td>1 x Permanently Sealed UV Cuvette</td>
</tr>
<tr>
<td>RSPEC00521</td>
<td>Blank -- 0.1M Hydrochloric Acid</td>
<td>0mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00271</td>
<td>Nicotinic Acid Absorbance/Transmission Standard</td>
<td>6mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00281</td>
<td>Nicotinic Acid Absorbance/Transmission Standard</td>
<td>12mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00291</td>
<td>Nicotinic Acid Absorbance/Transmission Standard</td>
<td>18mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00301</td>
<td>Nicotinic Acid Absorbance/Transmission Standard</td>
<td>24mg/l</td>
<td>100ml Amber Bottle</td>
</tr>
</tbody>
</table>
## Wavelength Standards (Certified at 0.1nm, 0.2nm, 0.5nm, 1.0nm & 2.0nm slit widths)

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Nominal Peak Wavelengths (0.2nm Slit Width)</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSPEC0001</td>
<td>Didymium Solution UV and Visible Wavelength Standard 298nm to 865nm</td>
<td>298nm, 328.8nm, 353.8nm, 443.8nm, 468.6nm, 481.3nm, 511.5nm, 521.6nm, 574.8nm, 731.4nm, 739.6nm, 794nm, 801.1nm, 865nm</td>
<td>1 x Permanently Sealed UV Cuvette</td>
</tr>
<tr>
<td>RSPEC0008</td>
<td>Samarium Solution UV and Visible Wavelength Standard 235nm to 480nm</td>
<td>235nm, 278.8nm, 290.1nm, 305.2nm, 317.4nm, 331.6nm, 344.4nm, 362.2nm, 374.1nm, 390.4nm, 401.1nm, 415.3nm, 463.4nm, 478.6nm</td>
<td>1 x Permanently Sealed UV Cuvette</td>
</tr>
<tr>
<td>RSPEC0015</td>
<td>Holmium Oxide Solution UV and Visible Wavelength Standard 240nm to 640nm</td>
<td>240.8nm, 249.6nm, 278nm, 286.8nm, 333nm, 345.4nm, 361.1nm, 385.2nm, 416nm, 451.8nm, 536.3nm, 640.2nm</td>
<td>1 x Permanently Sealed UV Cuvette</td>
</tr>
<tr>
<td>RSPEC00011</td>
<td>Didymium Solution UV and Visible Wavelength Standard 298nm to 865nm</td>
<td>298nm, 328.8nm, 353.8nm, 443.8nm, 468.5nm, 481.3nm, 511.5nm, 521.6nm, 574.8nm, 731.4nm, 739.6nm, 794nm, 801.1nm, 865nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00081</td>
<td>Samarium Solution UV and Visible Wavelength Standard 235nm to 480nm</td>
<td>235nm, 278.8nm, 290.1nm, 305.2nm, 317.4nm, 331.6nm, 344.4nm, 362.2nm, 374.1nm, 390.4nm, 401.1nm, 415.3nm, 463.4nm, 478.6nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00151</td>
<td>Holmium Oxide Solution UV and Visible Wavelength Standard 240nm to 640nm</td>
<td>240.8nm, 249.6nm, 278nm, 286.8nm, 333nm, 345.4nm, 361.1nm, 385.2nm, 416nm, 451.8nm, 467.6nm, 485nm, 536.3nm, 640.2nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC-EP0064</td>
<td>Holmium Oxide Solution UV and Visible Wavelength Standard 240nm to 640nm (Ph. Eur)</td>
<td>241.15nm, 287.15nm, 361.5nm, 486nm, 536.3nm</td>
<td>1 x Permanently Sealed UV Cuvette</td>
</tr>
</tbody>
</table>
### Stray Light Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Nominal Peak Wavelengths (0.2nm Slit Width)</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSPEC-EP00641</td>
<td>Holmium Oxide Solution UV and Visible Wavelength Standard 240nm to 640nm (Ph. Eur)</td>
<td>241.15nm, 287.15nm, 361.5nm, 486nm, 536.3nm</td>
<td>100ml Amber Bottle</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Cut Off</th>
<th>Packed In</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSPEC0036</td>
<td>Stray Light Inorganic Cut-off filter - Sodium Nitrite</td>
<td>390nm</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0037</td>
<td>Stray Light Inorganic Cut-off filter - Potassium Iodide</td>
<td>260nm</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0038</td>
<td>Stray Light Inorganic Cut-off filter - Sodium Iodide</td>
<td>260nm</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0039</td>
<td>Stray Light Inorganic Cut-off filter - Lithium Carbonate</td>
<td>227nm</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0040</td>
<td>Stray Light Inorganic Cut-off filter - Sodium Chloride</td>
<td>205nm</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC0041</td>
<td>Stray Light Inorganic Cut-off filter - Potassium Chloride</td>
<td>200nm</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC00361</td>
<td>Stray Light Inorganic Cut-off filter - Sodium Nitrite</td>
<td>390nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00371</td>
<td>Stray Light Inorganic Cut-off filter - Potassium Iodide</td>
<td>260nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00381</td>
<td>Stray Light Inorganic Cut-off filter - Sodium Iodide</td>
<td>260nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00391</td>
<td>Stray Light Inorganic Cut-off filter - Lithium Carbonate</td>
<td>227nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00401</td>
<td>Stray Light Inorganic Cut-off filter - Sodium Chloride</td>
<td>205nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00411</td>
<td>Stray Light Inorganic Cut-off filter - Potassium chloride</td>
<td>200nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC00541</td>
<td>Spectrophotometry Stray Light Blank Aqueous</td>
<td></td>
<td>100ml Amber Bottle</td>
</tr>
</tbody>
</table>
### Bandwidth Standard

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Certified Value</th>
<th>Packed In</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSPEC-EP0062</td>
<td>Spectrophotometry Stray Light Inorganic Cut-off filter - Potassium Chloride with Blank (Ph. Eur.)</td>
<td>198nm</td>
<td>2 x Permanently Sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC-EP00621</td>
<td>Spectrophotometry Stray Light Inorganic Cut-off filter - Potassium Chloride with Blank (Ph. Eur.)</td>
<td>198nm</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC-EP00741</td>
<td>Spectrophotometry Stray Light Blank Aqueous (Ph.Eur)</td>
<td></td>
<td>100ml Amber Bottle</td>
</tr>
</tbody>
</table>

### Resolution Standards

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Information</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSPEC-EPR001</td>
<td>Resolution Standard - Toluene in Methanol with Blank (Ph. Eur.)</td>
<td>For use in second-order derivative spectroscopy as specified by the Ph. Eur.</td>
<td>2 x Permanently sealed UV Cuvettes (including blank)</td>
</tr>
<tr>
<td>RSPEC-EPR002</td>
<td>Resolution Standard - Toluene in Methanol</td>
<td>For use in second-order derivative spectroscopy as specified by the Ph. Eur.</td>
<td>100ml Amber Bottle</td>
</tr>
<tr>
<td>RSPEC-EPR003</td>
<td>Resolution Standard - Methanol blank (Ph. Eur.)</td>
<td>For use in second-order derivative spectroscopy as specified by the Ph. Eur.</td>
<td>100ml Amber Bottle</td>
</tr>
</tbody>
</table>
Melting Point Standards

Summary of Features & Benefits:

**Commercial Benefits**
- Extensive range
- Can be used with any melting point apparatus
- Presented in high quality glass bottles
- Customised Melting Point Standards also available
- Ready to Use

**Technical Benefits**
- Uncertainty of measurement up to ± 0.3°C
- Consistency of product – Independent, Traceable, Certified
- Certificates of Analysis and Safety Data Sheets available online

The product range includes Benzophenone, Melting Point +47 to +49°C To Anthraquinone, Melting Point +283 to +286°C. These products are prepared using the highest purity raw materials. Melting points are determined using a high accuracy Differential Scanning Calorimeter (DSC) system that is calibrated to the ITS - 90 International Temperature Scale. Verification measurements are completed using a high specification melting point apparatus.

**Melting Point Standards**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Certified Value</th>
<th>Packed in</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMPSET1</td>
<td>Melting Point Standard Set</td>
<td></td>
<td>3 x 1g</td>
</tr>
<tr>
<td></td>
<td>Sulphanilamide</td>
<td>+164 to +166°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Caffeine</td>
<td>+235 to +237°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vanillin</td>
<td>+81 to +83°C</td>
<td></td>
</tr>
<tr>
<td>RMP236</td>
<td>Caffeine</td>
<td>+235 to +237°C</td>
<td>1 x 1g</td>
</tr>
<tr>
<td>RMP165</td>
<td>Sulphanilamide</td>
<td>+164 to +166°C</td>
<td>1 x 1g</td>
</tr>
<tr>
<td>MPVMB2</td>
<td>Vanillin</td>
<td>+81 to +83°C</td>
<td>1 x 0.3g</td>
</tr>
<tr>
<td>RMP082</td>
<td>Vanillin</td>
<td>+81 to +83°C</td>
<td>1 x 1g</td>
</tr>
<tr>
<td>RMPSET3</td>
<td>Melting Point Standard Set</td>
<td></td>
<td>3 x 1g</td>
</tr>
<tr>
<td></td>
<td>Phenacetin</td>
<td>+133 to +135°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Caffeine</td>
<td>+235 to +237°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vanillin</td>
<td>+81 to +83°C</td>
<td></td>
</tr>
<tr>
<td>RMP132</td>
<td>Phenacetin</td>
<td>+133 to +135°C</td>
<td>1 x 1g</td>
</tr>
<tr>
<td>RMPSET2</td>
<td>Melting Point Standard Set</td>
<td></td>
<td>3 x 1g</td>
</tr>
<tr>
<td></td>
<td>Benzophenone</td>
<td>+47 to +49°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzoic Acid</td>
<td>+121 to +123°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anthraquinone</td>
<td>+283 to +286°C</td>
<td></td>
</tr>
<tr>
<td>RMP048</td>
<td>Benzophenone</td>
<td>+47 to +49°C</td>
<td>1 x 1g</td>
</tr>
<tr>
<td>RMP122</td>
<td>Benzoic Acid</td>
<td>+121 to +123°C</td>
<td>1 x 1g</td>
</tr>
<tr>
<td>RMP284</td>
<td>Anthraquinone</td>
<td>+283 to +286°C</td>
<td>1 x 1g</td>
</tr>
<tr>
<td>RMP053</td>
<td>p-Nitrotoluene</td>
<td>+52 to +54°C</td>
<td>1 x 1g</td>
</tr>
<tr>
<td>RMP246</td>
<td>Carbazole</td>
<td>+244 to +248°C</td>
<td>1 x 1g</td>
</tr>
<tr>
<td>RMP159</td>
<td>Salicylic Acid</td>
<td>+158 to +160°C</td>
<td>1 x 1g</td>
</tr>
</tbody>
</table>
Reagecon manufactures an extensive range of Density Standards in accordance with ASTM D1480-12 for testing of Density or Relative Density (specific and API gravity) by Bingham Pycnometer. These materials can be used as calibration standards for density measurement by pycnometric techniques, vibrational techniques or hydrometer based techniques.

The product range includes:

• 0.6960 - 3.1140g/ml @ 15°C
• 0.6619 - 3.1096g/ml @ 20°C
• 0.6878 - 3.1043g/ml @ 25°C
• 0.6752 - 3.0852g/ml @ 40°C
• 0.6668 - 3.0721g/ml @ 50°C
• 0.6582 - 1.0478g/ml @ 60°C
• 0.6407 - 1.0302g/ml @ 80°C

The products are prepared gravimetrically on a weight/weight basis. Both solute and solvent are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025. The density of each standard is established using a high performance set of fully calibrated reference pycnometers.
## Density Standards @ 15°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN15010PY</td>
<td>Density Standard 0.6960g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15020PY</td>
<td>Density Standard 0.7073g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15030PY</td>
<td>Density Standard 0.7184g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15040PY</td>
<td>Density Standard 0.7298g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15050PY</td>
<td>Density Standard 0.7411g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15060PY</td>
<td>Density Standard 0.7524g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15070PY</td>
<td>Density Standard 0.7721g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15080PY</td>
<td>Density Standard 0.7933g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15090PY</td>
<td>Density Standard 0.8168g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15100PY</td>
<td>Density Standard 0.8428g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15110PY</td>
<td>Density Standard 0.8715g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15120PY</td>
<td>Density Standard 0.9135g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15130PY</td>
<td>Density Standard 0.9514g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15140PY</td>
<td>Density Standard 1.0040g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15150PY</td>
<td>Density Standard 1.0337g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15160PY</td>
<td>Density Standard 1.0828g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15170PY</td>
<td>Density Standard 1.1661g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15180PY</td>
<td>Density Standard 1.2498g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15190PY</td>
<td>Density Standard 1.3318g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15200PY</td>
<td>Density Standard 1.4152g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15210PY</td>
<td>Density Standard 1.5820g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15215PY</td>
<td>Density Standard 1.6459g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15220PY</td>
<td>Density Standard 1.7495g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15225PY</td>
<td>Density Standard 1.8366g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15230PY</td>
<td>Density Standard 1.9171g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15240PY</td>
<td>Density Standard 2.0846g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15250PY</td>
<td>Density Standard 2.2568g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15260PY</td>
<td>Density Standard 2.4261g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15270PY</td>
<td>Density Standard 2.6055g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15280PY</td>
<td>Density Standard 2.7588g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15290PY</td>
<td>Density Standard 2.9418g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15300PY</td>
<td>Density Standard 3.1140g/ml @15°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>
## Density Standards @ 20°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN20010PY</td>
<td>Density Standard 0.6919g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20020PY</td>
<td>Density Standard 0.7033g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20030PY</td>
<td>Density Standard 0.7148g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20040PY</td>
<td>Density Standard 0.7261g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20050PY</td>
<td>Density Standard 0.7374g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20060PY</td>
<td>Density Standard 0.7488g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20070PY</td>
<td>Density Standard 0.7683g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20080PY</td>
<td>Density Standard 0.7893g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20090PY</td>
<td>Density Standard 0.8126g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20100PY</td>
<td>Density Standard 0.8384g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20110PY</td>
<td>Density Standard 0.8668g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20120PY</td>
<td>Density Standard 0.9098g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20130PY</td>
<td>Density Standard 0.9476g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20140PY</td>
<td>Density Standard 1.0005g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20150PY</td>
<td>Density Standard 1.0301g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20160PY</td>
<td>Density Standard 1.0792g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20170PY</td>
<td>Density Standard 1.1651g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20180PY</td>
<td>Density Standard 1.2486g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20190PY</td>
<td>Density Standard 1.3304g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20200PY</td>
<td>Density Standard 1.4136g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20210PY</td>
<td>Density Standard 1.5799g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20220PY</td>
<td>Density Standard 1.7470g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20230PY</td>
<td>Density Standard 1.9141g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20240PY</td>
<td>Density Standard 2.0812g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20250PY</td>
<td>Density Standard 2.2531g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20260PY</td>
<td>Density Standard 2.4219g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20270PY</td>
<td>Density Standard 2.6011g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20280PY</td>
<td>Density Standard 2.7542g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20290PY</td>
<td>Density Standard 2.9370g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20300PY</td>
<td>Density Standard 3.1096g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>DEN25010PY</td>
<td>Density Standard 0.6878g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25020PY</td>
<td>Density Standard 0.6993g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25030PY</td>
<td>Density Standard 0.7111g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25040PY</td>
<td>Density Standard 0.7223g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25050PY</td>
<td>Density Standard 0.7337g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25060PY</td>
<td>Density Standard 0.7452g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25070PY</td>
<td>Density Standard 0.7645g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25080PY</td>
<td>Density Standard 0.7853g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25090PY</td>
<td>Density Standard 0.8084g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25100PY</td>
<td>Density Standard 0.8340g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25110PY</td>
<td>Density Standard 0.8622g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25120PY</td>
<td>Density Standard 0.9060g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25130PY</td>
<td>Density Standard 0.9438g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25140PY</td>
<td>Density Standard 0.9969g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25150PY</td>
<td>Density Standard 1.0265g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25160PY</td>
<td>Density Standard 1.0755g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25170PY</td>
<td>Density Standard 1.1639g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25180PY</td>
<td>Density Standard 1.2000g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25190PY</td>
<td>Density Standard 1.2471g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25200PY</td>
<td>Density Standard 1.3287g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25210PY</td>
<td>Density Standard 1.4117g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25220PY</td>
<td>Density Standard 1.5000g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25230PY</td>
<td>Density Standard 1.5775g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25240PY</td>
<td>Density Standard 1.6000g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25250PY</td>
<td>Density Standard 1.7441g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25260PY</td>
<td>Density Standard 1.9108g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25270PY</td>
<td>Density Standard 2.0775g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25280PY</td>
<td>Density Standard 2.2490g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25290PY</td>
<td>Density Standard 2.4175g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25300PY</td>
<td>Density Standard 2.5964g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25310PY</td>
<td>Density Standard 2.7493g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25320PY</td>
<td>Density Standard 2.9319g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25330PY</td>
<td>Density Standard 3.1043g/ml @25°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>
## Density Standards @ 40°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN40010PY</td>
<td>Density Standard 0.6752g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40020PY</td>
<td>Density Standard 0.6872g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40030PY</td>
<td>Density Standard 0.6997g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40040PY</td>
<td>Density Standard 0.7109g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40050PY</td>
<td>Density Standard 0.7226g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40060PY</td>
<td>Density Standard 0.7343g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40070PY</td>
<td>Density Standard 0.7531g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40080PY</td>
<td>Density Standard 0.7733g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40090PY</td>
<td>Density Standard 0.7958g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40100PY</td>
<td>Density Standard 0.8207g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40110PY</td>
<td>Density Standard 0.8482g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40120PY</td>
<td>Density Standard 0.8945g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40130PY</td>
<td>Density Standard 0.9323g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40140PY</td>
<td>Density Standard 0.9857g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40150PY</td>
<td>Density Standard 1.0152g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40160PY</td>
<td>Density Standard 1.0642g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40170PY</td>
<td>Density Standard 1.1581g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40180PY</td>
<td>Density Standard 1.2408g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40190PY</td>
<td>Density Standard 1.3217g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40200PY</td>
<td>Density Standard 1.4039g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40210PY</td>
<td>Density Standard 1.5685g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40220PY</td>
<td>Density Standard 1.7339g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40230PY</td>
<td>Density Standard 1.8994g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40240PY</td>
<td>Density Standard 2.0649g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40250PY</td>
<td>Density Standard 2.2352g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40260PY</td>
<td>Density Standard 2.4028g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40270PY</td>
<td>Density Standard 2.5807g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40280PY</td>
<td>Density Standard 2.7329g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40290PY</td>
<td>Density Standard 2.9132g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40300PY</td>
<td>Density Standard 3.0852g/ml @40°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>
## Density Standards @ 50°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN50010PY</td>
<td>Density Standard 0.6668g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50020PY</td>
<td>Density Standard 0.6791g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50030PY</td>
<td>Density Standard 0.6917g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50040PY</td>
<td>Density Standard 0.7033g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50050PY</td>
<td>Density Standard 0.7151g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50060PY</td>
<td>Density Standard 0.7269g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50070PY</td>
<td>Density Standard 0.7454g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50080PY</td>
<td>Density Standard 0.7653g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50090PY</td>
<td>Density Standard 0.7873g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50100PY</td>
<td>Density Standard 0.8118g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50110PY</td>
<td>Density Standard 0.8387g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50120PY</td>
<td>Density Standard 0.8868g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50130PY</td>
<td>Density Standard 0.9245g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50140PY</td>
<td>Density Standard 0.9777g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50150PY</td>
<td>Density Standard 1.0073g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50160PY</td>
<td>Density Standard 1.0562g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50170PY</td>
<td>Density Standard 1.1512g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50180PY</td>
<td>Density Standard 1.2346g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50190PY</td>
<td>Density Standard 1.3138g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50200PY</td>
<td>Density Standard 1.3973g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50210PY</td>
<td>Density Standard 1.5609g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50220PY</td>
<td>Density Standard 1.7257g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50230PY</td>
<td>Density Standard 1.8904g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50240PY</td>
<td>Density Standard 2.0551g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50250PY</td>
<td>Density Standard 2.2247g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50260PY</td>
<td>Density Standard 2.3916g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50270PY</td>
<td>Density Standard 2.5689g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50280PY</td>
<td>Density Standard 2.7207g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50290PY</td>
<td>Density Standard 2.9005g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50300PY</td>
<td>Density Standard 3.0721g/ml @50°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>
### Density Standards @ 60°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN60010PY</td>
<td>Density Standard 0.6582g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60020PY</td>
<td>Density Standard 0.6708g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60030PY</td>
<td>Density Standard 0.6835g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60040PY</td>
<td>Density Standard 0.6955g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60050PY</td>
<td>Density Standard 0.7076g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60060PY</td>
<td>Density Standard 0.7196g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60070PY</td>
<td>Density Standard 0.7376g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60080PY</td>
<td>Density Standard 0.7572g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60090PY</td>
<td>Density Standard 0.7788g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60100PY</td>
<td>Density Standard 0.8027g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60110PY</td>
<td>Density Standard 0.8292g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60120PY</td>
<td>Density Standard 0.8790g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60130PY</td>
<td>Density Standard 0.9166g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60140PY</td>
<td>Density Standard 0.9695g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60150PY</td>
<td>Density Standard 0.9990g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60160PY</td>
<td>Density Standard 1.0478g/ml @60°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>

### Density Standards @ 80°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN80010PY</td>
<td>Density Standard 0.6407g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80020PY</td>
<td>Density Standard 0.6538g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80030PY</td>
<td>Density Standard 0.6661g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80040PY</td>
<td>Density Standard 0.6798g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80050PY</td>
<td>Density Standard 0.6932g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80060PY</td>
<td>Density Standard 0.7047g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80070PY</td>
<td>Density Standard 0.7220g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80080PY</td>
<td>Density Standard 0.7407g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80090PY</td>
<td>Density Standard 0.7614g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80100PY</td>
<td>Density Standard 0.7844g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80110PY</td>
<td>Density Standard 0.8098g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80120PY</td>
<td>Density Standard 0.8629g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80130PY</td>
<td>Density Standard 0.9006g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80140PY</td>
<td>Density Standard 0.9520g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80150PY</td>
<td>Density Standard 0.9815g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80160PY</td>
<td>Density Standard 1.0302g/ml @80°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>
Reagecon manufactures an extensive range of Density Standards in accordance with ASTM D4052 for testing of Density, Relative Density and API Gravity of Liquids by Digital Density Meter. These materials can be used as calibration standards for density measurement by vibrational techniques or hydrometer based techniques.

The product range includes:

- 0.6960 - 1.0337 g/ml @ 15°C
- 0.6619 - 1.0301 g/ml @ 20°C
- 0.6878 - 1.0265 g/ml @ 25°C
- 0.6752 - 1.0152 g/ml @ 40°C
- 0.6668 - 1.0073 g/ml @ 50°C
- 0.6582 - 0.9990 g/ml @ 60°C
- 0.6538 - 1.0302 g/ml @ 80°C

These products are prepared gravimetrically on a weight/weight basis. Both solute and solvent are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for calibration of laboratory balances (INAB Ref: 265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025. The density of each standard is verified using a high performance calibrated density meter. The control of the density meter (identification no. - RRD015) is completed using high purity ISO Guide 34 accredited density standards similar in density value to these products.
## Density Standards @ 15°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN15010</td>
<td>Density Standard 0.6960g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15020</td>
<td>Density Standard 0.7073g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15030</td>
<td>Density Standard 0.7184g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15040</td>
<td>Density Standard 0.7298g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15050</td>
<td>Density Standard 0.7411g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15060</td>
<td>Density Standard 0.7524g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15070</td>
<td>Density Standard 0.7721g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15080</td>
<td>Density Standard 0.7933g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15090</td>
<td>Density Standard 0.8168g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15100</td>
<td>Density Standard 0.8428g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15110</td>
<td>Density Standard 0.8715g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15120</td>
<td>Density Standard 0.9135g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15130</td>
<td>Density Standard 0.9514g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15140</td>
<td>Density Standard 1.0040g/ml @15°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN15150</td>
<td>Density Standard 1.0337g/ml @15°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>

## Density Standards @ 20°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN20010</td>
<td>Density Standard 0.6919g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20020</td>
<td>Density Standard 0.7033g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20030</td>
<td>Density Standard 0.7148g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20040</td>
<td>Density Standard 0.7261g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20050</td>
<td>Density Standard 0.7374g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20060</td>
<td>Density Standard 0.7488g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20070</td>
<td>Density Standard 0.7683g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20080</td>
<td>Density Standard 0.7893g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20090</td>
<td>Density Standard 0.8126g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20100</td>
<td>Density Standard 0.8384g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20110</td>
<td>Density Standard 0.8668g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20120</td>
<td>Density Standard 0.9098g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20130</td>
<td>Density Standard 0.9476g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20140</td>
<td>Density Standard 1.0005g/ml @20°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN20150</td>
<td>Density Standard 1.0301g/ml @20°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>
### Density Standards @ 25°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN25010</td>
<td>Density Standard 0.6878g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25020</td>
<td>Density Standard 0.6993g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25030</td>
<td>Density Standard 0.7111g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25040</td>
<td>Density Standard 0.7223g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25050</td>
<td>Density Standard 0.7337g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25060</td>
<td>Density Standard 0.7452g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25070</td>
<td>Density Standard 0.7645g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25080</td>
<td>Density Standard 0.7853g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25090</td>
<td>Density Standard 0.8084g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25100</td>
<td>Density Standard 0.8340g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25110</td>
<td>Density Standard 0.8622g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25120</td>
<td>Density Standard 0.9060g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25130</td>
<td>Density Standard 0.9438g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25140</td>
<td>Density Standard 0.9969g/ml @25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN25150</td>
<td>Density Standard 1.0265g/ml @25°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>

### Density Standards @ 40°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN40010</td>
<td>Density Standard 0.6752g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40020</td>
<td>Density Standard 0.6872g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40030</td>
<td>Density Standard 0.6997g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40040</td>
<td>Density Standard 0.7109g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40050</td>
<td>Density Standard 0.7226g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40060</td>
<td>Density Standard 0.7343g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40070</td>
<td>Density Standard 0.7531g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40080</td>
<td>Density Standard 0.7733g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40090</td>
<td>Density Standard 0.7958g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40100</td>
<td>Density Standard 0.8207g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40110</td>
<td>Density Standard 0.8482g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40120</td>
<td>Density Standard 0.8945g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40130</td>
<td>Density Standard 0.9323g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40140</td>
<td>Density Standard 0.9857g/ml @40°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN40150</td>
<td>Density Standard 1.0152g/ml @40°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>
### Density Standards @ 50°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN50010</td>
<td>Density Standard 0.6668g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50020</td>
<td>Density Standard 0.6791g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50030</td>
<td>Density Standard 0.6917g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50040</td>
<td>Density Standard 0.7033g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50050</td>
<td>Density Standard 0.7151g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50060</td>
<td>Density Standard 0.7269g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50070</td>
<td>Density Standard 0.7454g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50080</td>
<td>Density Standard 0.7653g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50090</td>
<td>Density Standard 0.7873g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50100</td>
<td>Density Standard 0.8118g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50110</td>
<td>Density Standard 0.8387g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50120</td>
<td>Density Standard 0.8868g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50130</td>
<td>Density Standard 0.9245g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50140</td>
<td>Density Standard 0.9777g/ml @50°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN50150</td>
<td>Density Standard 1.0073g/ml @50°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>

### Density Standards @ 60°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN60010</td>
<td>Density Standard 0.6582g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60020</td>
<td>Density Standard 0.6708g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60030</td>
<td>Density Standard 0.6835g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60040</td>
<td>Density Standard 0.6955g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60050</td>
<td>Density Standard 0.7076g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60060</td>
<td>Density Standard 0.7196g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60070</td>
<td>Density Standard 0.7376g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60080</td>
<td>Density Standard 0.7572g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60090</td>
<td>Density Standard 0.7788g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60100</td>
<td>Density Standard 0.8027g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60110</td>
<td>Density Standard 0.8292g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60120</td>
<td>Density Standard 0.8790g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60130</td>
<td>Density Standard 0.9166g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60140</td>
<td>Density Standard 0.9695g/ml @60°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN60150</td>
<td>Density Standard 0.9990g/ml @60°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>
### Density Standards @ 80°C

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN80020</td>
<td>Density Standard 0.6538g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80030</td>
<td>Density Standard 0.6661g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80040</td>
<td>Density Standard 0.6798g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80050</td>
<td>Density Standard 0.6923g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80060</td>
<td>Density Standard 0.7047g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80070</td>
<td>Density Standard 0.7220g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80080</td>
<td>Density Standard 0.7407g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80090</td>
<td>Density Standard 0.7614g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80100</td>
<td>Density Standard 0.7844g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80110</td>
<td>Density Standard 0.8098g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80120</td>
<td>Density Standard 0.8629g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80130</td>
<td>Density Standard 0.9006g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80140</td>
<td>Density Standard 0.9520g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80150</td>
<td>Density Standard 0.9815g/ml @80°C</td>
<td>100ml</td>
</tr>
<tr>
<td>DEN80160</td>
<td>Density Standard 1.0302g/ml @80°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>
Reagecon now offers an exciting range of certified, accurate and traceable Viscosity Standards. These products can be used for calibration, control, verification, qualification or method validation of kinematic and dynamic viscosity measurement instruments (both manual and automatic). All of the products are traceable to the ITS-90 Temperature scale and the universally accepted Primary Standard value of the viscosity of water at 20°C, defined as 1.0034mm²/s (cSt) by ISO3666.

The products offer the following additional benefits:

- Manufactured and certified according to ASTM D2162 using Ubbelohde Master Viscometers.
- This is the internationally recognised primary method for Viscosity Standard certification.
- Each standard is certified for Kinematic Viscosity (mm²/s,cSt), Dynamic Viscosity (cP) and Density (g/ml) at a range of temperatures.
- Reagecon holds ISO17025 (INAB Ref:265C) accreditation for temperature calibration, balance calibration and the testing of Density Standards for use on digital Density Meters.
- Extended shelf life.
- Attractive secure packaging.
- Certificates of Analysis and safety data sheets available on-line for every batch manufactured.
- Manufactured from high quality, stable base oils and additives.
- All standards observe Newtonian Fluid behaviour.

Reagecon has an extensive Research and Development facility based in Shannon, Ireland. Several speciality and additional ranges of viscosity standards are currently under development. These include Silicone Standards for the calibration of Rotational Viscometers.
Reagecon Viscosity Standards: Nominal Kinematic Viscosity, Dynamic Viscosity & Density

Individual batches' certified viscosity values will vary from the data given below an absolute maximum of 10%, but typically less than 5%. Individual batches' certified values will be shown to 4 significant figures for all parameters on their Certificate of Analysis.

<table>
<thead>
<tr>
<th>Prod Code</th>
<th>KINEMATIC VISCOSITY</th>
<th>DYNAMIC VISCOSITY</th>
<th>DENSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm²/s (cSt)</td>
<td>mPa.s (cP)</td>
<td>g/ml</td>
</tr>
<tr>
<td>REVIS-N.4</td>
<td>0.47 0.45 0.41 0.40</td>
<td>0.31 0.29 0.26 0.25</td>
<td>0.66 0.66 0.64 0.64</td>
</tr>
<tr>
<td>REVIS-N.8</td>
<td>0.74 0.70 0.61 0.60</td>
<td>0.50 0.47 0.41 0.40</td>
<td>0.69 0.69 0.68 0.68</td>
</tr>
<tr>
<td>REVIS-N1.0</td>
<td>1.3 1.2 1.0 0.97 0.87</td>
<td>0.91 0.84 0.71 0.69 0.61</td>
<td>0.73 0.72 0.71 0.71 0.70</td>
</tr>
<tr>
<td>REVIS-N2</td>
<td>2.9 2.6 2.1 2.0 1.7</td>
<td>2.1 1.9 1.5 1.4 1.2</td>
<td>0.72 0.72 0.71 0.71 0.70</td>
</tr>
<tr>
<td>REVIS-S3</td>
<td>4.4 3.9 3.0 2.9 2.4</td>
<td>3.6 3.2 2.4 2.3 1.9</td>
<td>0.82 0.82 0.81 0.81 0.80</td>
</tr>
<tr>
<td>REVIS-N4</td>
<td>6.7 5.8 4.2 4.0 3.2</td>
<td>5.5 4.8 3.4 3.2 2.6</td>
<td>0.84 0.83 0.83 0.82 0.82</td>
</tr>
<tr>
<td>REVIS-S6</td>
<td>10 8.7 6.0 5.7 4.4</td>
<td>8.7 7.4 5.0 4.7 3.7</td>
<td>0.84 0.84 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-N7.5</td>
<td>14 12 8.0 7.5 5.8</td>
<td>12 10 6.7 6.3 4.8</td>
<td>0.85 0.85 0.84 0.84 0.83</td>
</tr>
<tr>
<td>REVIS-N10</td>
<td>20 16 11 10 7.5</td>
<td>18 15 9.3 8.7 6.4</td>
<td>0.84 0.83 0.82 0.82 0.82</td>
</tr>
<tr>
<td>REVIS-N14</td>
<td>30 24 15 14 10</td>
<td>25 20 12 11 8.2</td>
<td>0.84 0.83 0.82 0.82 0.82</td>
</tr>
<tr>
<td>REVIS-S20</td>
<td>43 34 20 18 13</td>
<td>36 29 17 15 11</td>
<td>0.85 0.85 0.84 0.84 0.83</td>
</tr>
<tr>
<td>REVIS-N26</td>
<td>59 47 27 25 18</td>
<td>46 37 22 20 14</td>
<td>0.84 0.84 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-N35</td>
<td>88 66 35 32 21</td>
<td>76 58 30 28 18</td>
<td>0.87 0.87 0.86 0.86 0.85</td>
</tr>
<tr>
<td>REVIS-N44</td>
<td>110 87 48 44 30</td>
<td>85 66 37 35 23</td>
<td>0.84 0.84 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-S60</td>
<td>160 120 60 54 35</td>
<td>140 110 54 49 31</td>
<td>0.88 0.87 0.86 0.86 0.85</td>
</tr>
<tr>
<td>REVIS-N75</td>
<td>210 160 83 75 50</td>
<td>170 130 69 63 42</td>
<td>0.84 0.84 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-N100</td>
<td>320 220 110 95 59</td>
<td>270 190 91 81 50</td>
<td>0.88 0.88 0.87 0.87 0.86</td>
</tr>
<tr>
<td>REVIS-N140</td>
<td>400 300 160 140 90</td>
<td>360 270 140 120 78</td>
<td>0.84 0.83 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-S200</td>
<td>550 400 200 180 110</td>
<td>460 340 170 150 95</td>
<td>0.84 0.84 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-N250</td>
<td>790 580 280 250 160</td>
<td>690 500 250 220 140</td>
<td>0.84 0.84 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-N350</td>
<td>980 710 340 310 190</td>
<td>834 609 294 262 161</td>
<td>0.84 0.84 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-S415</td>
<td>1400 1000 470 410 250</td>
<td>1200 840 390 350 210</td>
<td>0.85 0.84 0.84 0.83 0.83</td>
</tr>
<tr>
<td>REVIS-S600</td>
<td>1800 1300 590 520 310</td>
<td>1700 1200 540 480 280</td>
<td>0.85 0.85 0.84 0.84 0.83</td>
</tr>
<tr>
<td>REVIS-N750</td>
<td>2700 1800 850 760 440</td>
<td>2300 1600 710 640 370</td>
<td>0.85 0.85 0.84 0.84 0.83</td>
</tr>
<tr>
<td>REVIS-N1000</td>
<td>3300 2300 1100 940 560</td>
<td>2800 2000 940 790 460</td>
<td>0.86 0.85 0.85 0.84 0.83</td>
</tr>
<tr>
<td>REVIS-N1400</td>
<td>4900 3500 1600 1400 830</td>
<td>4100 3000 1300 1200 690</td>
<td>0.84 0.84 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-S2000</td>
<td>8400 5300 1900 1600 810</td>
<td>7300 4700 1700 1400 710</td>
<td>0.88 0.87 0.87 0.87 0.86</td>
</tr>
<tr>
<td>REVIS-N2500</td>
<td>8300 5900 2700 2400 1400</td>
<td>7000 5000 2200 2000 1200</td>
<td>0.84 0.84 0.83 0.83 0.82</td>
</tr>
<tr>
<td>REVIS-N4000</td>
<td>19000 12000 4100 3400 1700</td>
<td>16000 10000 3600 3000 1500</td>
<td>0.88 0.88 0.88 0.87 0.87</td>
</tr>
<tr>
<td>REVIS-N5100</td>
<td>28000 17000 6000 5100 2500</td>
<td>24000 15000 5200 4400 2100</td>
<td>0.89 0.89 0.88 0.88 0.87</td>
</tr>
<tr>
<td>REVIS-S8000</td>
<td>41000 25000 8000 6700 3200</td>
<td>32000 20000 7000 5900 2800</td>
<td>0.90 0.89 0.89 0.89 0.88</td>
</tr>
<tr>
<td>REVIS-N10200</td>
<td>58000 36000 12000 10000 4900</td>
<td>51000 32000 11000 8100 4400</td>
<td>0.89 0.89 0.88 0.88 0.88</td>
</tr>
<tr>
<td>REVIS-N15000</td>
<td>77000 47000 16000 13000 6100</td>
<td>64000 41000 14000 12000 5000</td>
<td>0.89 0.89 0.88 0.88 0.88</td>
</tr>
<tr>
<td>REVIS-N18000</td>
<td>100000 64000 21000 18000 8500</td>
<td>89000 56000 19000 16000 7500</td>
<td>0.90 0.89 0.89 0.89 0.88</td>
</tr>
<tr>
<td>REVIS-S30000</td>
<td>130000 79000 28000 23000 11000</td>
<td>69000 23000 20000 9000</td>
<td>- 0.89 0.89 0.89 0.88</td>
</tr>
</tbody>
</table>
Reagecon now manufacture a range of Sucrose in Water solutions in compliance with ISO Guide 34 (INAB Ref:001RM). This is an internationally recognised accreditation for the production of certified reference materials. It delivers the highest level of quality assurance possible, and provides the customer with full confidence that the manufacturer’s standards are produced correctly and competently in a sound metrological fashion. ISO Guide 34 accreditation requirements includes production planning, material selection, assignment of certified values, uncertainty, traceability, homogeneity and stability, as well as packaging and documentation. These standards are certified by gravimetric preparation, with an uncertainty of measurement of < 0.15% w/w, and include an equivalent % Brix and refractive index value.

**ISO Guide 34 Sucrose in Water Standards (INAB Ref:001RM) -12 Week Shelf Life**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>% Sucrose in Water (w/w) @ 20°C</th>
<th>Nominal Brix %*</th>
<th>Nominal Refractive Index @ 20°C</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS05</td>
<td>5% Sucrose</td>
<td>5% Brix</td>
<td>1.340264</td>
<td>15ml</td>
</tr>
<tr>
<td>BS07</td>
<td>7% Sucrose</td>
<td>7% Brix</td>
<td>1.343253</td>
<td>15ml</td>
</tr>
<tr>
<td>BS10</td>
<td>10% Sucrose</td>
<td>10% Brix</td>
<td>1.347824</td>
<td>15ml</td>
</tr>
<tr>
<td>BS112</td>
<td>11.2% Sucrose</td>
<td>11.2% Brix</td>
<td>1.349682</td>
<td>15ml</td>
</tr>
<tr>
<td>BS115</td>
<td>11.5% Sucrose</td>
<td>11.5% Brix</td>
<td>1.350149</td>
<td>15ml</td>
</tr>
<tr>
<td>BS12</td>
<td>12% Sucrose</td>
<td>12% Brix</td>
<td>1.350930</td>
<td>15ml</td>
</tr>
<tr>
<td>BS125</td>
<td>12.5% Sucrose</td>
<td>12.5% Brix</td>
<td>1.351714</td>
<td>15ml</td>
</tr>
<tr>
<td>BS15</td>
<td>15% Sucrose</td>
<td>15% Brix</td>
<td>1.355679</td>
<td>15ml</td>
</tr>
<tr>
<td>BS20</td>
<td>20% Sucrose</td>
<td>20% Brix</td>
<td>1.363842</td>
<td>15ml</td>
</tr>
<tr>
<td>BS25</td>
<td>25% Sucrose</td>
<td>25% Brix</td>
<td>1.373238</td>
<td>15ml</td>
</tr>
<tr>
<td>BS30</td>
<td>30% Sucrose</td>
<td>30% Brix</td>
<td>1.381149</td>
<td>15ml</td>
</tr>
<tr>
<td>BS35</td>
<td>35% Sucrose</td>
<td>35% Brix</td>
<td>1.390322</td>
<td>15ml</td>
</tr>
<tr>
<td>BS40</td>
<td>40% Sucrose</td>
<td>40% Brix</td>
<td>1.399860</td>
<td>15ml</td>
</tr>
<tr>
<td>BS45</td>
<td>45% Sucrose</td>
<td>45% Brix</td>
<td>1.409777</td>
<td>15ml</td>
</tr>
<tr>
<td>BS50</td>
<td>50% Sucrose</td>
<td>50% Brix</td>
<td>1.420087</td>
<td>15ml</td>
</tr>
<tr>
<td>BS55</td>
<td>55% Sucrose</td>
<td>55% Brix</td>
<td>1.430800</td>
<td>15ml</td>
</tr>
<tr>
<td>BS60</td>
<td>60% Sucrose</td>
<td>60% Brix</td>
<td>1.441928</td>
<td>15ml</td>
</tr>
</tbody>
</table>

*The nominal Brix and Refractive Index values are taken from the ICUMSA published tables.*
Brix Standards (Stabilised)

Reagecon manufactures several ranges of Brix/Refractive Index Standards for ease of use when controlling all types of refractometers. All of these standards are manufactured using high purity raw materials. These Product ranges - Product No.’s BS00S to BS67S for single bottles and BS00S6 to BS67S6 for packs of six bottles, contain the same raw materials as the ICUMSA range, but are stabilised to have an extended shelf-life of 1 year. These products represent excellent value for users that are not required to follow ICUMSA Guidelines.

All products are prepared gravimetrically on a weight/weight basis. Both solute (sucrose) and solvent (water) are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO/IEC 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025. The Brix value of the standard is verified using a high performance calibrated, temperature controlled refractometer.

The control of this instrument is completed using high purity ISO Guide 34 accredited Brix standards similar in Brix value to the products listed.

Summary of Features & Benefits:

<table>
<thead>
<tr>
<th>Commercial Benefits</th>
<th>Technical Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Most extensive range available in the market place</td>
<td>• Test results accredited to ISO/IEC 17025 for values</td>
</tr>
<tr>
<td>• Customised pack options available</td>
<td>5-60% Brix (INAB Ref:264T)</td>
</tr>
<tr>
<td>• Extended 1 Year shelf life (For users not required to</td>
<td>• Uncertainty of measurement ±0.11% for all Brix</td>
</tr>
<tr>
<td>follow ICUMSA Guidelines)</td>
<td>values @ 20°C</td>
</tr>
<tr>
<td>• Can be used with any brand of refractometer</td>
<td>• Consistency of product-Independent, Traceable</td>
</tr>
<tr>
<td>• Extensive range (0 - 67.5% Brix)</td>
<td>Certified</td>
</tr>
<tr>
<td>• Presented in a convenient high quality dropper bottle</td>
<td>• Certificates of Analysis and Safety Data Sheets</td>
</tr>
<tr>
<td>• Available as single bottles or a handy set of 6 bottles</td>
<td>available online</td>
</tr>
<tr>
<td>• Ready to Use</td>
<td></td>
</tr>
</tbody>
</table>

330
## Brix Standards - Stabilised - 1 Year Shelf Life

<table>
<thead>
<tr>
<th>Description</th>
<th>Nominal Refractive Index @ 20°C*</th>
<th>Product No. 15ml</th>
<th>Product No. 6x15ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose (Brix) Standard Stabilised 0%</td>
<td>1.332986</td>
<td>BS00S</td>
<td>BS00S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 5%</td>
<td>1.340264</td>
<td>BS05S</td>
<td>BS05S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 7%</td>
<td>1.343253</td>
<td>BS07S</td>
<td>BS07S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 10%</td>
<td>1.347824</td>
<td>BS10S</td>
<td>BS10S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 11.2%</td>
<td>1.349682</td>
<td>BS112S</td>
<td>BS112S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 11.5%</td>
<td>1.350149</td>
<td>BS115S</td>
<td>BS115S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 12%</td>
<td>1.350930</td>
<td>BS12S</td>
<td>BS12S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 12.5%</td>
<td>1.351714</td>
<td>BS125S</td>
<td>BS125S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 14.9%</td>
<td>1.355519</td>
<td>BS149S</td>
<td>BS149S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 15%</td>
<td>1.355679</td>
<td>BS15S</td>
<td>BS15S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 19.4%</td>
<td>1.362846</td>
<td>BS194S</td>
<td>BS194S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 20%</td>
<td>1.363842</td>
<td>BS20S</td>
<td>BS20S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 23.8%</td>
<td>1.370261</td>
<td>BS238S</td>
<td>BS238S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 25%</td>
<td>1.372328</td>
<td>BS25S</td>
<td>BS25S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 30%</td>
<td>1.381149</td>
<td>BS30S</td>
<td>BS30S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 35%</td>
<td>1.390322</td>
<td>BS35S</td>
<td>BS35S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 40%</td>
<td>1.399860</td>
<td>BS40S</td>
<td>BS40S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 45%</td>
<td>1.409777</td>
<td>BS45S</td>
<td>BS45S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 50%</td>
<td>1.420087</td>
<td>BS50S</td>
<td>BS50S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 55%</td>
<td>1.430800</td>
<td>BS55S</td>
<td>BS55S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 60%</td>
<td>1.441928</td>
<td>BS60S</td>
<td>BS60S6</td>
</tr>
<tr>
<td>Sucrose (Brix) Standard Stabilised 67.5%</td>
<td>1.459290</td>
<td>BS67S</td>
<td>BS67S6</td>
</tr>
</tbody>
</table>

*The nominal Refractive Index value is taken from the ICUMSA published tables for all product numbers except BS67S and BS67S6 (Brix Value 67.5%) which is a measured value.
Product No.’s RIBS07S to RIBS60S have identical components and shelf life (1 Year) to the stabilised Brix Standards already described in the previous section. However, the certified values are expressed in Refractive Index (R.I) units $\delta_D$. All these products are prepared gravimetrically on a weight/weight basis. Both solute (sucrose) and solvent (water) are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025. The R.I. of the standard is verified using a high performance calibrated, temperature controlled refractometer. The control of this instrument is completed using high purity ISO Guide 34 accredited Brix standards similar in Brix value to the products listed.

### Summary of Features & Benefits:

<table>
<thead>
<tr>
<th>Commercial Benefits</th>
<th>Technical Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Both sucrose and solvent based standards available</td>
<td>• Test results accredited to ISO/IEC 17025 for values in the range of 1.33310 to 1.65812 (INAB Ref:264T)</td>
</tr>
<tr>
<td>• Most extensive range in the marketplace</td>
<td>• Uncertainty of measurement up to 0.00014 $\delta_D$ units</td>
</tr>
<tr>
<td>• Customised pack options available</td>
<td>• Consistency of product-Independent, Traceable, Certified</td>
</tr>
<tr>
<td>• Shelf life of 1 - 2 years</td>
<td>• Certificates of Analysis and Safety Data Sheets available online</td>
</tr>
<tr>
<td>• Can be used with any brand of refractometer</td>
<td>• Presented in a convenient high quality dropper bottle</td>
</tr>
<tr>
<td>• Extensive range (1.33299-1.65808 $\delta_D$)</td>
<td>• Available as single bottles or a handy set of 6 bottles</td>
</tr>
<tr>
<td>• Ready to Use</td>
<td>• Test results accredited to ISO/IEC 17025 for values in the range of 1.33310 to 1.65812 (INAB Ref:264T)</td>
</tr>
</tbody>
</table>

### Commercial Benefits:
- Both sucrose and solvent based standards available
- Most extensive range in the marketplace
- Customised pack options available
- Shelf life of 1 - 2 years
- Can be used with any brand of refractometer
- Extensive range (1.33299-1.65808 $\delta_D$)
- Presented in a convenient high quality dropper bottle
- Available as single bottles or a handy set of 6 bottles
- Ready to Use

### Technical Benefits:
- Test results accredited to ISO/IEC 17025 for values in the range of 1.33310 to 1.65812 (INAB Ref:264T)
- Uncertainty of measurement up to $0.00014 \delta_D$ units
- Consistency of product-Independent, Traceable, Certified
- Certificates of Analysis and Safety Data Sheets available online
### Refractive Index Standards - Stabilised Sucrose - 1 Year Shelf Life

<table>
<thead>
<tr>
<th>Description (20°C)</th>
<th>Nominal Refractive Index @ 20°C*</th>
<th>Product No. 15ml</th>
<th>Product No. 6x15ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.33299</td>
<td>RIBS00S</td>
<td>RIBS00S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.34026</td>
<td>RIBS05S</td>
<td>RIBS05S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.34325</td>
<td>RIBS07S</td>
<td>RIBS07S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.34782</td>
<td>RIBS10S</td>
<td>RIBS10S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.34968</td>
<td>RIBS112S</td>
<td>RIBS112S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.35015</td>
<td>RIBS115S</td>
<td>RIBS115S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.35093</td>
<td>RIBS12S</td>
<td>RIBS12S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.35171</td>
<td>RIBS125S</td>
<td>RIBS125S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.35568</td>
<td>RIBS15S</td>
<td>RIBS15S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.36384</td>
<td>RIBS20S</td>
<td>RIBS20S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.37233</td>
<td>RIBS25S</td>
<td>RIBS25S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.38115</td>
<td>RIBS30S</td>
<td>RIBS30S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.39032</td>
<td>RIBS35S</td>
<td>RIBS35S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.39986</td>
<td>RIBS40S</td>
<td>RIBS40S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.40978</td>
<td>RIBS45S</td>
<td>RIBS45S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.42009</td>
<td>RIBS50S</td>
<td>RIBS50S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.4308</td>
<td>RIBS55S</td>
<td>RIBS55S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.44193</td>
<td>RIBS60S</td>
<td>RIBS60S6</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.46546</td>
<td>RIBS70S</td>
<td>RIBS70S6</td>
</tr>
</tbody>
</table>

* The nominal Refractive Index value is taken from the ICUMSA published tables

### Solvent Based Refractive Index Standards - 2 Year Shelf Life

<table>
<thead>
<tr>
<th>Description (20°C)</th>
<th>Nominal Refractive Index @ 20°C*</th>
<th>Product No. 15ml</th>
<th>Product No. 6x15ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.38779</td>
<td>RIO138</td>
<td>RIO1386</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.40485</td>
<td>RIO140</td>
<td>RIO1406</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.42345</td>
<td>RIO142</td>
<td>RIO1426</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.44468</td>
<td>RIO144</td>
<td>RIO1446</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.46768</td>
<td>RIO146</td>
<td>RIO1466</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.49672</td>
<td>RIO149</td>
<td>RIO1496</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.50044</td>
<td>RIO150</td>
<td>RIO1506</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.51726</td>
<td>RIO151</td>
<td>RIO1516</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.5366</td>
<td>RIO154</td>
<td>RIO1546</td>
</tr>
<tr>
<td>Refractive Index @ 20°C</td>
<td>1.65808</td>
<td>RIO165</td>
<td>RIO1656</td>
</tr>
</tbody>
</table>

* The nominal Refractive Index value is taken from the ICUMSA published tables
Reagecon manufactures a range of Osmolality Standards for ease of use when calibrating all types of Osmometers, irrespective of brand. All Osmolality standards are manufactured using high purity raw materials in accordance with European and United States Pharmacopoeia guidelines where appropriate. These products are prepared gravimetrically and are on a weight/weight basis. Both solute (salts) and solvent (water) are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025. The Osmolality of the standard is verified using a high performance calibrated, temperature controlled Osmometer. The calibration of this instrument is completed using high purity certified Osmolality standards similar in value to the products listed below.

### Summary of Features & Benefits:

**Commercial Benefits**
- Extended shelf life
- Can be used with any brand of Osmometer
- Extensive range 50 - 3000mOsm/kg H₂O
- (including protein based and urine based standards)
- Presented in convenient ampoules
- Ready to Use

**Technical Benefits**
- ISO/IEC 17025 accredited for range 50 - 3000mOsm/kg H₂O (INAB Ref:264T)
- Low Uncertainty of Measurement
- Manufactured in accordance with European and United States Pharmacopoeia guidelines where appropriate
- Consistency of product - Independent, Traceable, Certified
- Certificates of Analysis and Safety Data Sheets available online

### Product Specifications:

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>European Pharmacopoeia 2.2.35 United States Pharmacopoeia &lt;785&gt;</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE-OSM-50</td>
<td>50mOsm/Kg H₂O</td>
<td>conforms</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-100</td>
<td>100mOsm/Kg H₂O</td>
<td>conforms</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-200</td>
<td>200mOsm/Kg H₂O</td>
<td>conforms</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-290</td>
<td>290mOsm/Kg H₂O</td>
<td>conforms</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-300</td>
<td>300mOsm/Kg H₂O</td>
<td>conforms</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-400</td>
<td>400mOsm/Kg H₂O</td>
<td>conforms</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-500</td>
<td>500mOsm/Kg H₂O</td>
<td>conforms</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-600</td>
<td>600mOsm/Kg H₂O</td>
<td>conforms</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-700</td>
<td>700mOsm/Kg H₂O</td>
<td>conforms</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-850</td>
<td>850mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-900</td>
<td>900mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-1000</td>
<td>1000mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>European Pharmacopoeia 2.2.35 United States Pharmacopeia &lt;785&gt;</td>
<td>Pack Size</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------</td>
<td>---------------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>RE-OSM-1500</td>
<td>1500mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-2000</td>
<td>2000mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-2500</td>
<td>2500mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-OSM-3000</td>
<td>3000mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-POSM-240</td>
<td>Protein Based 240mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-POSM-280</td>
<td>Protein Based 280mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-POSM-320</td>
<td>Protein Based 320mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-ROSM-300</td>
<td>Urine Based 300mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
<tr>
<td>RE-ROSM-800</td>
<td>Urine Based 800mOsm/Kg H₂O</td>
<td>Not Applicable</td>
<td>12 x 5ml</td>
</tr>
</tbody>
</table>

**Traceability in the Production of this Standard:**

This product was prepared gravimetrically as a weight/weight basis. Both solvent and solvent were weighed on balances calibrated by Reagecon engineers using NMI traceable weights. Reagecon batches are calibrated by calibration of microbalances weighing in-house standard solutions to comply with the requirements of TS/TS 17025. The balance was calibrated under monitored environmental conditions and atmospheric pressure. Tests were performed for capacity, readability, responsibility, accuracy, and linearity.

**Balance ID No.:** EDP-180  
**Calibration Date of Balance:** 20th December 2014  
**Calibration Authority of Balance:** Reagecon Diagnostics Ltd, ISO17025 Accreditation No. 20C  
**Weights No.:** EDP-191  
**Calibration date of Weights:** 20th December 2014  
**Calibration Authority of Weights:** Reagecon Diagnostics Ltd, ISO17025 Accreditation No. 20C

Approved by: Quality Manager  
Date: 6th February 2015  
This certificate must not be reproduced in full.
The concentration of solute in a liquid solvent, effects several colligative properties of the combined solution, one of which is its Freezing Point. The Freezing Point of milk depends on this phenomenon and milk in its unadulterated state has a freezing point below 0°C. As milk is diluted with water, the freezing point moves closer to that of pure water (0°C). This elevation of freezing temperature is due mainly to reduction in concentration of lactose and inorganic salts, due to the addition of water. The reduced concentration of biological materials such as fats, proteins or other solids are not thought to contribute to the freezing point elevation.

Historically, from a regulatory and practical perspective freezing point value is considered the optimum method for determining the presence of added water in either raw or treated milk. Economically, the addition of water to milk either accidentally or deliberately by producers, or at any other point in the process chain has a profound adverse effect on the milk or milk derivatives industry. The measurement has formed the basis of an official method that dates back to at least 1923 and has become established as a scientific discipline called Cryoscopy. Dating back to the 1950’s several manufacturers of Cryoscopes have offered their products in the market place. Such instruments are usually very accurate and precise. Like all scientific instruments, Cryoscopes require calibration and control and in some situations method validation and instrument qualification. Due to our extensive knowledge of metrology and our unequalled number of accreditations, Reagecon offers a range of high quality Standards to facilitate these objectives. The range on offer is completed by the availability of Heat Transfer Fluid.

**Product benefits include:**

- NIST traceability
- Extremely high accuracy
- Extended shelf life
- High quality, easy to use, secure packaging
- Products manufactured and certified for use on all Cryoscopes compliant to International Reference Standard ISO5764/IDF108 for the determination of Freezing Point in milk

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTR01025</td>
<td>Cryoscope Standard 000 (0.000°C)</td>
<td>250 ml</td>
</tr>
<tr>
<td>MTR020X</td>
<td>Cryoscope Standard 422 (-0.408°C) (422m°H)</td>
<td>100 ml</td>
</tr>
<tr>
<td>MTR02025</td>
<td>Cryoscope Standard 422 (-0.408°C) (422m°H)</td>
<td>250 ml</td>
</tr>
<tr>
<td>MTR030X</td>
<td>Cryoscope Standard 530 (-0.512°C) (530m°H)</td>
<td>100 ml</td>
</tr>
<tr>
<td>MTR03025</td>
<td>Cryoscope Standard 530 (-0.512°C) (530m°H)</td>
<td>250 ml</td>
</tr>
<tr>
<td>MTR03525</td>
<td>Cryoscope Standard 577 (-0.557°C) (577m°H)</td>
<td>250 ml</td>
</tr>
<tr>
<td>MTR040X</td>
<td>Cryoscope Standard 621 (-0.600°C) (621m°H)</td>
<td>100 ml</td>
</tr>
<tr>
<td>MTR04025</td>
<td>Cryoscope Standard 621 (-0.600°C) (621m°H)</td>
<td>250 ml</td>
</tr>
<tr>
<td>CRYBLY</td>
<td>Cryoscope Bath Liquid</td>
<td>500 ml</td>
</tr>
<tr>
<td>HTF250</td>
<td>Cryoscope Heat Transfer Fluid</td>
<td>250 ml</td>
</tr>
</tbody>
</table>
United States Pharmacopoeia Solutions

Reagecon is pleased to announce a new range of USP ready to use solutions. These solutions have been developed as part of our on-going Research and Development program. These USP solutions, which are only available from a small number of manufacturers, bring you multiple benefits that include:

• Significant reduction in the amount of time and expense required to prepare Test Solutions
• Ensure consistency of products (independent, traceable Certificates of Analysis)
• Produced according to relevant Pharmacopoeia requirements - no deviation in materials or methodology
• Manufactured with controlled processes and batch certified to ensure lot-to-lot consistency and reproducibility of results. Such benefits give you the assurance and peace of mind that in-house preparations cannot provide

For USP products not listed below, please contact us at sales@reagecon.ie

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 100ml</th>
<th>Product No. 500ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP Solution Acetate Buffer TS Conforms to USP</td>
<td>USP0101</td>
<td>USP0105</td>
</tr>
<tr>
<td>USP Solution Acetic Acid 2.00 Normal Conforms to USP</td>
<td>USP0201</td>
<td>USP0205</td>
</tr>
<tr>
<td>USP Solution Acetic Acid-Ammonium Acetate Buffer TS Conforms to USP</td>
<td>USP0301</td>
<td>USP0305</td>
</tr>
<tr>
<td>USP Solution Ammonia-Ammonium Chloride Buffer TS Conforms to USP</td>
<td>USP0401</td>
<td>USP0405</td>
</tr>
<tr>
<td>USP Solution Ammoniacal Potassium Ferricyanide TS Conforms to USP</td>
<td>USP0501</td>
<td>USP0505</td>
</tr>
<tr>
<td>USP Solution Ammonium Carbonate TS Conforms to USP</td>
<td>USP0601</td>
<td>USP0605</td>
</tr>
<tr>
<td>USP Solution Ammonium Chloride TS Conforms to USP</td>
<td>USP0701</td>
<td>USP0705</td>
</tr>
<tr>
<td>USP Solution Ammonium Chloride-Ammonium Hydroxide TS Conforms to USP</td>
<td>USP0801</td>
<td>USP0805</td>
</tr>
<tr>
<td>USP Solution Ammonium Thiocyanate TS Conforms to USP</td>
<td>USP0901</td>
<td>USP0905</td>
</tr>
<tr>
<td>USP Solution Barium Chloride TS/RS Conforms to USP</td>
<td>USP1001</td>
<td>USP1005</td>
</tr>
<tr>
<td>USP Solution Barium Nitrate TS Conforms to USP</td>
<td>USP1101</td>
<td>USP1105</td>
</tr>
<tr>
<td>USP Solution Bromate-Bromide Solution 0.100 Normal Conforms to USP</td>
<td>USP1201</td>
<td>USP1205</td>
</tr>
<tr>
<td>USP Solution Bromocresol Green TS Conforms to USP</td>
<td>USP1301</td>
<td>USP1305</td>
</tr>
<tr>
<td>USP Solution Bromocresol Purple TS Conforms to USP</td>
<td>USP1401</td>
<td>USP1405</td>
</tr>
<tr>
<td>USP Solution Bromophenol Blue TS Conforms to USP</td>
<td>USP1501</td>
<td>USP1505</td>
</tr>
<tr>
<td>USP Solution Bromothymol Blue TS Conforms to USP</td>
<td>USP1601</td>
<td>USP1605</td>
</tr>
</tbody>
</table>

Summary of Features & Benefits:

<table>
<thead>
<tr>
<th>Commercial Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Reduce preparation time</td>
</tr>
<tr>
<td>• Free up resources for core activities</td>
</tr>
<tr>
<td>• Save valuable bench space</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Technical Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Produced in accordance with USP methods</td>
</tr>
<tr>
<td>• Consistency of product - Independent, Traceable, Certified</td>
</tr>
<tr>
<td>• Certificates of Analysis and Safety Data Sheets available online</td>
</tr>
<tr>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>USP Solution Calcium Sulfate TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Congo Red TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Cupric Acetate TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Cupric Sulfate TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Dichlorofluorescein TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Edetate Disodium TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Ferric Ammonium Sulfate TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Ferric Chloride TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Glycerin Base TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Hydrochloric Acid 1.00 Normal Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Iodine (Iodine-Iodide) 0.100 Normal Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Lead Acetate TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Mercuric Chloride TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Methyl Orange Indicator Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Methyl Red TS 2 Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Methyl Red-Methylene Blue Solution Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Methylene Blue TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Neutral Red TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Oxalic Acid TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Perchloric Acid 0.1 Normal Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Phenol Red TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Phenolphthalein TS/RS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Methyl Orange Indicator Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Phosphotungstic Acid TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Potassium Acetate TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Potassium Carbonate TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Potassium Iodide TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Potassium Permanganate 0.100 Normal Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Potassium Sulfate TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Resorcinol TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Silver Nitrate 0.100 Normal Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Sodium Acetate TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Sodium Chloride Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Sodium Hydroxide 1.00 Normal Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Sodium Thiosulfate 0.100 Normal (N/10) Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Sulfanilic Acid TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Sulfuric Acid 1.00 Normal Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Thymol Blue TS/RS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Zinc Sulfate 0.0500 Molar Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Diluted Alcohol (50/50 Alcohol Water) Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Ammonia (Ammonium Hydroxide) TS Conforms to USP</td>
</tr>
<tr>
<td>USP Solution Methyl Red TS Conforms to USP</td>
</tr>
</tbody>
</table>

Colouration Reagents as outlined in the United States Pharmacopeia can be seen in the Colour Standards Chapter of this compendium.
Reagecon, as a specialist manufacturer of laboratory reagents has now introduced the range of Reagents and Standard solutions in Chapters 2 and 4 of the current Ph. Eur. All are manufactured and tested in compliance with the Ph. Eur. and are supplied with a Certificates of Analysis, Lot No, and expiry date are stated on all product labels.

**European Pharmacopoeia Solutions**

Reagents as outlined in Chapter 4 (4.1.1) of Ph. Eur.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000401</td>
<td>Acetic acid (30%)</td>
<td>1L</td>
</tr>
<tr>
<td>1000402</td>
<td>Acetic acid, Dilute (12%)</td>
<td>1L</td>
</tr>
<tr>
<td>1000501</td>
<td>Acetic anhydride Solution R1</td>
<td>1L</td>
</tr>
<tr>
<td>1002501</td>
<td>Alcohol, aldehyde-free</td>
<td>1L</td>
</tr>
<tr>
<td>1004702</td>
<td>Ammonia, dilute R1</td>
<td>1L</td>
</tr>
<tr>
<td>1004703</td>
<td>Ammonia, dilute R2</td>
<td>1L</td>
</tr>
<tr>
<td>1005201</td>
<td>Ammonium Carbonate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1005703</td>
<td>Ammonium Molybdate Solution R2</td>
<td>1L</td>
</tr>
<tr>
<td>1007301</td>
<td>Anisaldehyde Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1007302</td>
<td>Anisaldehyde Solution R1</td>
<td>100ml</td>
</tr>
<tr>
<td>1009301</td>
<td>Barium Chloride Solution R1</td>
<td>1L</td>
</tr>
<tr>
<td>1009401</td>
<td>Barium Hydroxide Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1011601</td>
<td>Biuret reagent</td>
<td>1L</td>
</tr>
<tr>
<td>1012601</td>
<td>Bromocresol Green Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1012602</td>
<td>Bromocresol Green - Methyl Red Mixed Indicator</td>
<td>100ml</td>
</tr>
<tr>
<td>10126021</td>
<td>Bromocresol Green - Methyl Red Mixed Indicator</td>
<td>1L</td>
</tr>
<tr>
<td>10126025</td>
<td>Bromocresol Green - Methyl Red Mixed Indicator</td>
<td>5L</td>
</tr>
<tr>
<td>1012701</td>
<td>Bromocresol Purple Indicator Solution 0.04%</td>
<td>100ml</td>
</tr>
<tr>
<td>1012801</td>
<td>Bromphenol Blue Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1012803</td>
<td>Bromphenol Blue Solution R2</td>
<td>100ml</td>
</tr>
<tr>
<td>1012901</td>
<td>Bromthymol Blue Solution R1</td>
<td>100ml</td>
</tr>
<tr>
<td>1012903</td>
<td>Bromthymol Blue Solution R3</td>
<td>2 x 500ml</td>
</tr>
<tr>
<td>1015201</td>
<td>Calcium Sulphate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1022001</td>
<td>Congo Red Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1022002</td>
<td>Congo Red Paper</td>
<td>100pk</td>
</tr>
<tr>
<td>1022901</td>
<td>Crystal Violet Solution (Non-aqueous indicator)</td>
<td>100ml</td>
</tr>
<tr>
<td>1023100</td>
<td>Cupri-Citric Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1023300A</td>
<td>Cupri-Tartaric Solution 1</td>
<td>500ml</td>
</tr>
<tr>
<td>1023300B</td>
<td>Cupri-Tartaric Solution 2</td>
<td>500ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>1032101</td>
<td>Diphenylamine Solution</td>
<td>1L</td>
</tr>
<tr>
<td>10321011</td>
<td>Diphenylamine Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1032102</td>
<td>Diphenylamine Solution R1</td>
<td>1L</td>
</tr>
<tr>
<td>103110101</td>
<td>Dimidium Bromide Disulphine Blue Mixed Indicator</td>
<td>100ml</td>
</tr>
<tr>
<td>1031101</td>
<td>Dimidium Bromide Disulphine Blue Mixed Indicator</td>
<td>1L</td>
</tr>
<tr>
<td>1031101-500</td>
<td>Dimidium Bromide - Sulphan Blue Mixed Indicator</td>
<td>500ml</td>
</tr>
<tr>
<td>1037702</td>
<td>Ferric Ammonium Sulphate R2</td>
<td>1L</td>
</tr>
<tr>
<td>1038100</td>
<td>Ferroin Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1039101</td>
<td>Formaldehyde Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1039401</td>
<td>Fuchsin Solution, Decolorised</td>
<td>100ml</td>
</tr>
<tr>
<td>1039402</td>
<td>Fuchsin Solution, Decolorised R1</td>
<td>100ml</td>
</tr>
<tr>
<td>1043101</td>
<td>Holmium Perchlorate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1043501</td>
<td>Hydrochloric Acid R1</td>
<td>1L</td>
</tr>
<tr>
<td>1043503</td>
<td>Hydrochloric Acid, Dilute</td>
<td>1L</td>
</tr>
<tr>
<td>1043504</td>
<td>Hydrochloric Acid, Dilute R1</td>
<td>1L</td>
</tr>
<tr>
<td>1045901</td>
<td>Iodine Bromide Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1046300</td>
<td>Iodoplatinate</td>
<td>200 mL</td>
</tr>
<tr>
<td>1048001</td>
<td>Lanthanum Nitrate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1048101</td>
<td>Lead Acetate Cotton</td>
<td>10g</td>
</tr>
<tr>
<td>1048102</td>
<td>Lead Acetate Paper</td>
<td>50pk</td>
</tr>
<tr>
<td>1048103</td>
<td>Lead Acetate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1052101</td>
<td>Mercuric Bromide Paper</td>
<td>50pk</td>
</tr>
<tr>
<td>1053601</td>
<td>Methoxyphenylacetic</td>
<td>100ml</td>
</tr>
<tr>
<td>1054801</td>
<td>Methyl Orange Mixed Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1054802</td>
<td>Methyl Orange Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1055101</td>
<td>Methyl Red Mixed Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1055102</td>
<td>Methyl Red Indicator Solution 0.02%</td>
<td>100ml</td>
</tr>
<tr>
<td>1056801</td>
<td>Mordant Black 11 Triturate</td>
<td>100g</td>
</tr>
<tr>
<td>1056700</td>
<td>Molybdovanadic</td>
<td>100ml</td>
</tr>
<tr>
<td>1057601</td>
<td>Naphtolbenzein Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1058201</td>
<td>Nile Blue A Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1058303</td>
<td>Ninhydrin Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1058304</td>
<td>Ninhydrin Solution R1</td>
<td>100ml</td>
</tr>
<tr>
<td>1058305</td>
<td>Ninhydrin Solution R2</td>
<td>100ml</td>
</tr>
<tr>
<td>1058402</td>
<td>Nitric acid, Dilute</td>
<td>100ml</td>
</tr>
<tr>
<td>1062901</td>
<td>Perchloric Acid Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1063601</td>
<td>Phenol Red Indicator Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1063603</td>
<td>Phenol Red Solution R2</td>
<td>500ml</td>
</tr>
<tr>
<td>1063702</td>
<td>Phenolphthalein Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1063703</td>
<td>Phenolphthalein Solution R1</td>
<td>100ml</td>
</tr>
<tr>
<td>1064501</td>
<td>Phenylhydrazine Hydro Chloride Solution</td>
<td>2 x 500ml</td>
</tr>
<tr>
<td>1065000</td>
<td>Phosphomolybdotungstic Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1065200</td>
<td>Phosphotungstic Acid Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>1065801</td>
<td>Picric Acid Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1065802</td>
<td>Picric Acid Solution R1</td>
<td>100ml</td>
</tr>
<tr>
<td>1069101</td>
<td>Potassium Chloride, 0.1M</td>
<td>1L</td>
</tr>
<tr>
<td>1069201</td>
<td>Potassium Chromate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1069501</td>
<td>Potassium Dichromate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>106950105</td>
<td>Potassium Dichromate Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>10695015</td>
<td>Potassium Dichromate Solution</td>
<td>5L</td>
</tr>
<tr>
<td>1069801</td>
<td>Potassium Ferrocyanide Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1070001</td>
<td>Potassium Hydrogen Phthalate, 0.2M</td>
<td>1L</td>
</tr>
<tr>
<td>1070302</td>
<td>Potassium Hydroxide in Alcohol (10% v/v) 0.5M</td>
<td>1L</td>
</tr>
<tr>
<td>1070303</td>
<td>Potassium Hydroxide in Alcohol</td>
<td>100ml</td>
</tr>
<tr>
<td>1070501</td>
<td>Potassium Iodide &amp; Starch Solution</td>
<td>125ml</td>
</tr>
<tr>
<td>1070502</td>
<td>Potassium Iodide Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1070504</td>
<td>Potassium Iodide Solution Saturated</td>
<td>500ml</td>
</tr>
<tr>
<td>1070600</td>
<td>Potassium Iodobismuthate Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1070602</td>
<td>Potassium Iodobismuthate Solution R2</td>
<td>100ml</td>
</tr>
<tr>
<td>1070902</td>
<td>Potassium Permanganate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1071301</td>
<td>Potassium Pyroantimonate Solution</td>
<td>125ml</td>
</tr>
<tr>
<td>1071600-A</td>
<td>Potassium Tetraiodomercurate Solution Alkaline Part A</td>
<td>100ml</td>
</tr>
<tr>
<td>1071600-B</td>
<td>Potassium Tetraiodomercurate Solution Alkaline Part B</td>
<td>100ml</td>
</tr>
<tr>
<td>1075201</td>
<td>Ruthenium Red Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1078301</td>
<td>Silver Nitrate Solution R1</td>
<td>1L</td>
</tr>
<tr>
<td>1078302</td>
<td>Silver Nitrate Solution R2</td>
<td>1L</td>
</tr>
<tr>
<td>1079301</td>
<td>Sodium Carbonate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1081401</td>
<td>Sodium Hydroxide Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1081402</td>
<td>Sodium Hydroxide Solution Dilute</td>
<td>1L</td>
</tr>
<tr>
<td>1081404</td>
<td>Sodium Hydroxide Solution Strong</td>
<td>1L</td>
</tr>
<tr>
<td>10816005</td>
<td>Sodium Hypochlorite Solution Strong</td>
<td>500ml</td>
</tr>
<tr>
<td>1083901</td>
<td>Sodium Sulphide Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1085001</td>
<td>Stannous Chloride Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1085103</td>
<td>Starch Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1086500</td>
<td>Sulphomolybdic Reagent R3</td>
<td>1L</td>
</tr>
<tr>
<td>1095502TO</td>
<td>Carbon Dioxide Free Water</td>
<td>1L</td>
</tr>
<tr>
<td>1086804</td>
<td>Sulphuric Acid Dilute Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1088600</td>
<td>Tetrathiomolybdomannum Hydroxide Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1089602</td>
<td>Thioacetamide Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1090701</td>
<td>Thymolphthalein 0.05% Indicator Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1094201</td>
<td>Tris(hydroxymethyl) Aminomethane Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1095502</td>
<td>Carbon Dioxide Free Water</td>
<td>1L</td>
</tr>
<tr>
<td>1096601</td>
<td>Zinc Chloride Formic Acid Solution</td>
<td>1L</td>
</tr>
<tr>
<td>1096602</td>
<td>Zinc Chloride Solution Iodinated</td>
<td>1L</td>
</tr>
<tr>
<td>1102301</td>
<td>Zinc Acetate Solution</td>
<td>1L</td>
</tr>
</tbody>
</table>
Volumetric Solutions as outlined in Chapter 4 (4.2.2) of Ph. Eur.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000100</td>
<td>0.1M Ammonium and Cerium Nitrate</td>
<td>1L</td>
</tr>
<tr>
<td>3000200</td>
<td>0.01M Ammonium and Cerium Nitrate</td>
<td>1L</td>
</tr>
<tr>
<td>3000300</td>
<td>0.1M Ammonium and Cerium Sulphate</td>
<td>1L</td>
</tr>
<tr>
<td>3000500</td>
<td>0.1M Ammonium Thiocyanate</td>
<td>1L</td>
</tr>
<tr>
<td>3000600</td>
<td>0.1M Barium Chloride</td>
<td>1L</td>
</tr>
<tr>
<td>3000900</td>
<td>0.004M Benzethonium Chloride</td>
<td>1L</td>
</tr>
<tr>
<td>3001100</td>
<td>0.1M Cerium Sulphate</td>
<td>1L</td>
</tr>
<tr>
<td>3001300</td>
<td>0.1M Ferric Ammonium Sulphate</td>
<td>1L</td>
</tr>
<tr>
<td>3001500</td>
<td>6M Hydrochloric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>3001500-10L</td>
<td>6M Hydrochloric Acid</td>
<td>10L</td>
</tr>
<tr>
<td>3001500-25L</td>
<td>6M Hydrochloric Acid</td>
<td>25L</td>
</tr>
<tr>
<td>3001500-5L</td>
<td>6M Hydrochloric Acid</td>
<td>5L</td>
</tr>
<tr>
<td>3001600</td>
<td>3M Hydrochloric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>3001700</td>
<td>2M Hydrochloric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>3001800</td>
<td>1M Hydrochloric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>3002100</td>
<td>0.1M Hydrochloric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>3002700</td>
<td>0.05M Iodine</td>
<td>1L</td>
</tr>
<tr>
<td>3002900</td>
<td>0.01M Iodine</td>
<td>1L</td>
</tr>
<tr>
<td>3003100</td>
<td>0.1M Lead Nitrate</td>
<td>1L</td>
</tr>
<tr>
<td>3003300</td>
<td>0.1M Lithium Methoxide</td>
<td>1L</td>
</tr>
<tr>
<td>3003500</td>
<td>0.02M Mercuric Nitrate</td>
<td>1L</td>
</tr>
<tr>
<td>3003900</td>
<td>0.1M Perchloric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>3004200</td>
<td>0.033M Potassium Bromate</td>
<td>1L</td>
</tr>
<tr>
<td>3004800</td>
<td>0.1M Potassium Hydroxide</td>
<td>1L</td>
</tr>
<tr>
<td>3004900</td>
<td>0.5M Potassium Hydroxide in Alcohol (60% v/v)</td>
<td>1L</td>
</tr>
<tr>
<td>3005000</td>
<td>0.5M Potassium Hydroxide, Alcoholic</td>
<td>1L</td>
</tr>
<tr>
<td>30050005</td>
<td>0.5M Potassium Hydroxide, Alcoholic, 50ml</td>
<td></td>
</tr>
<tr>
<td>3005100</td>
<td>0.1M Potassium Hydroxide, Alcoholic</td>
<td>1L</td>
</tr>
<tr>
<td>3005300</td>
<td>0.02M Potassium Permanganate</td>
<td>1L</td>
</tr>
<tr>
<td>3005600</td>
<td>0.1M Silver Nitrate</td>
<td>1L</td>
</tr>
<tr>
<td>3005800</td>
<td>0.1M Sodium Arsenite</td>
<td>1L</td>
</tr>
<tr>
<td>3005900</td>
<td>0.1M Sodium Edetate</td>
<td>1L</td>
</tr>
<tr>
<td>3006300</td>
<td>1M Sodium Hydroxide</td>
<td>1L</td>
</tr>
<tr>
<td>3006600</td>
<td>0.1M Sodium Hydroxide</td>
<td>1L</td>
</tr>
<tr>
<td>3007000</td>
<td>0.1M Sodium Hydroxide, Ethanolic</td>
<td>1L</td>
</tr>
<tr>
<td>3007100</td>
<td>0.1M Sodium Methoxide</td>
<td>1L</td>
</tr>
<tr>
<td>3007200</td>
<td>0.1M Sodium Nitrite</td>
<td>1L</td>
</tr>
<tr>
<td>3007300</td>
<td>0.1M Sodium Thiosulphate</td>
<td>1L</td>
</tr>
<tr>
<td>30073005</td>
<td>0.1M Sodium Thiosulphate, 50ml</td>
<td></td>
</tr>
<tr>
<td>3007800</td>
<td>0.5M Sulphuric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>3008000</td>
<td>0.05M Sulphuric Acid</td>
<td>1L</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>3008300</td>
<td>0.1M Tetrabutylammonium Hydroxide</td>
<td>1L</td>
</tr>
<tr>
<td>3008400</td>
<td>0.1M Tetrabutylammonium Hydroxide in 2-propanol</td>
<td>1L</td>
</tr>
<tr>
<td>3008500</td>
<td>0.05M Zinc Chloride</td>
<td>1L</td>
</tr>
<tr>
<td>3008600</td>
<td>0.1M Zinc Sulphate</td>
<td>1L</td>
</tr>
<tr>
<td>3008700</td>
<td>1M Cupriethylenediamine Hydroxide Solution</td>
<td>1L</td>
</tr>
<tr>
<td>3008800</td>
<td>0.1M Hydrochloric Acid, Alcoholic</td>
<td>1L</td>
</tr>
<tr>
<td>3009100</td>
<td>1.0M Potassium Hydroxide</td>
<td>1L</td>
</tr>
<tr>
<td>3009300</td>
<td>0.001M Silver Nitrate</td>
<td>1L</td>
</tr>
</tbody>
</table>

**Buffer Solutions as outlined in Chapter 4 (4.1.3) of Ph. Eur.**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000100</td>
<td>Buffered Acetone Solution</td>
<td>1L</td>
</tr>
<tr>
<td>4000600</td>
<td>Buffer Solution pH 3.5</td>
<td>1L</td>
</tr>
<tr>
<td>4000600-500ml</td>
<td>Buffer Solution pH 3.5</td>
<td>500ml</td>
</tr>
<tr>
<td>4000700</td>
<td>Phosphate Buffer Solution pH 3.5</td>
<td>10L</td>
</tr>
<tr>
<td>4000700-5L</td>
<td>Phosphate Buffer Solution pH 3.5</td>
<td>5L</td>
</tr>
<tr>
<td>4001400</td>
<td>Acetate Buffer Solution pH 4.6</td>
<td>1L</td>
</tr>
<tr>
<td>4002000-10L</td>
<td>Buffer Solution pH 5.5</td>
<td>10L</td>
</tr>
<tr>
<td>4002400</td>
<td>Phosphate Buffer Solution pH 6.0</td>
<td>1L</td>
</tr>
<tr>
<td>4002400-10L</td>
<td>Phosphate Buffer Solution pH 6.0</td>
<td>10L</td>
</tr>
<tr>
<td>4004800</td>
<td>Phosphate Buffer Solution pH 7.4</td>
<td>1L</td>
</tr>
<tr>
<td>4004800-5L</td>
<td>Phosphate Buffer Solution pH 7.4</td>
<td>5L</td>
</tr>
<tr>
<td>4005000-5L</td>
<td>Phosphate Buffered Saline pH 7.4</td>
<td>5L</td>
</tr>
<tr>
<td>4007200</td>
<td>Ammonium Chloride Buffer pH 9.5</td>
<td>1L</td>
</tr>
<tr>
<td>4007300</td>
<td>Ammonium Chloride Buffer pH 10.0</td>
<td>1L</td>
</tr>
<tr>
<td>4008300</td>
<td>Buffer Phosphate Solution pH 9.0</td>
<td>1L</td>
</tr>
<tr>
<td>4013300</td>
<td>Phosphate Buffer Solution pH 8.5 acc to EP</td>
<td>5L</td>
</tr>
</tbody>
</table>
Standard Solutions for Limit Tests as outlined in Chapter 4 (4.1.2) of Ph. Eur.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000200</td>
<td>Aluminium Standard Solution (200ppm Al)</td>
<td>100ml</td>
</tr>
<tr>
<td>5000203C</td>
<td>Concentrate To Make Aluminium Standard Solution (100ppm Al)</td>
<td>100ml</td>
</tr>
<tr>
<td>5000300C</td>
<td>Concentrate To Make Ammonium Standard Solution (100ppm NH₄)</td>
<td>100ml</td>
</tr>
<tr>
<td>5000301</td>
<td>Ammonium Standard Solution (2.5 ppm NH₄)</td>
<td>100ml</td>
</tr>
<tr>
<td>5000302C</td>
<td>Concentrate To Make Ammonium Standard Solution (1ppm NH₄)</td>
<td>100ml</td>
</tr>
<tr>
<td>5000400C</td>
<td>Concentrate To Make Antimony Standard Solution (1000ppm Sb)</td>
<td>100ml</td>
</tr>
<tr>
<td>5000500C</td>
<td>Concentrate To Make Arsenic Standard Solution (10ppm As)</td>
<td>100ml</td>
</tr>
<tr>
<td>5000700</td>
<td>Concentrate To Make Cadmium Standard Solution (0.1% Cd)</td>
<td>100ml</td>
</tr>
<tr>
<td>5000800C</td>
<td>Concentrate To Make Calcium Standard Solution (400ppm Ca)</td>
<td>100ml</td>
</tr>
<tr>
<td>5000802C</td>
<td>Concentrate To Make Calcium Standard Solution (100ppm Ca) Alcoholic</td>
<td>100ml</td>
</tr>
<tr>
<td>5000900C</td>
<td>Concentrate To Make Chloride Standard Solution (8ppm Cl)</td>
<td>100ml</td>
</tr>
<tr>
<td>5001000</td>
<td>Chromium Standard Solution (100ppm Cr)</td>
<td>1L</td>
</tr>
<tr>
<td>5001100</td>
<td>Copper Standard Solution (0.1% Cu)</td>
<td>100ml</td>
</tr>
<tr>
<td>5001200C</td>
<td>Concentrate To Make Ferrocyanide Standard Solution (100ppm Fe)</td>
<td>100ml</td>
</tr>
<tr>
<td>5001400C</td>
<td>Concentrate To Make Fluoride Standard Solution (10ppm F)</td>
<td>100ml</td>
</tr>
<tr>
<td>5001600C</td>
<td>Concentrate To Make Iron Standard Solution (20ppm Fe)</td>
<td>100ml</td>
</tr>
<tr>
<td>5001602C</td>
<td>Concentrate To Make Iron Standard Solution (8ppm Fe)</td>
<td>100ml</td>
</tr>
<tr>
<td>5001700</td>
<td>Lead Standard Solution (0.1% Pb)</td>
<td>100ml</td>
</tr>
<tr>
<td>5001701C</td>
<td>Concentrate To Make Lead Standard Solution (100ppm Pb)</td>
<td>100ml</td>
</tr>
<tr>
<td>5001800C</td>
<td>Concentrate To Make Magnesium Standard Solution (100ppm Mg)</td>
<td>100ml</td>
</tr>
<tr>
<td>5002000C</td>
<td>Concentrate To Make Nickel Standard Solution (10 ppm Ni)</td>
<td>100ml</td>
</tr>
<tr>
<td>5002100C</td>
<td>Concentrate To Make Nitrate Standard Solution (100ppm NO₃)</td>
<td>100ml</td>
</tr>
<tr>
<td>5002102C</td>
<td>Concentrate To Make Nitrate Standard Solution (2ppm NO₃)</td>
<td>100ml</td>
</tr>
<tr>
<td>5002200C</td>
<td>Concentrate To Make Phosphate Standard Solution (5ppm PO₄)</td>
<td>100ml</td>
</tr>
<tr>
<td>5002400C</td>
<td>Concentrate To Make Potassium Standard Solution (100ppm K)</td>
<td>100ml</td>
</tr>
<tr>
<td>5002500</td>
<td>Selenium Standard Solution (100ppm Se)</td>
<td>1L</td>
</tr>
<tr>
<td>5002700C</td>
<td>Concentrate To Make Sodium Standard Solution (200ppm Na)</td>
<td>100ml</td>
</tr>
<tr>
<td>5002800C</td>
<td>Concentrate To Make Sulphate Standard Solution (10ppm SO₄)</td>
<td>100ml</td>
</tr>
<tr>
<td>5003401C</td>
<td>Concentrate To Make Zinc Standard Solution (100ppm Zn)</td>
<td>100ml</td>
</tr>
</tbody>
</table>
### European Pharmacopoeia pH Buffer Solutions

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP1001-100</td>
<td>pH Buffer Solution pH 10.01 ± 0.01 @ 25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>EP1245-100</td>
<td>pH Buffer Solution pH 12.45 ± 0.05 @ 25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>EP1263-100</td>
<td>pH Buffer Solution pH 12.63 ± 0.01 @ 25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>EP168</td>
<td>pH Buffer Solution pH 1.68 ± 0.01 @ 25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>EP168-100</td>
<td>pH Buffer Solution pH 1.68 ± 0.01 @ 25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>EP378-100</td>
<td>pH Buffer Solution pH 3.78 ± 0.01 @ 25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>EP401</td>
<td>pH Buffer Solution pH 4.01 ± 0.01 @ 25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>EP401-100</td>
<td>pH Buffer Solution pH 4.01 ± 0.01 @ 25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>EP687</td>
<td>pH Buffer Solution pH 6.87 ± 0.01 @ 25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>EP687-100</td>
<td>pH Buffer Solution pH 6.87 ± 0.01 @ 25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>EP741</td>
<td>pH Buffer Solution pH 7.41 ± 0.01 @ 25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>EP741-100</td>
<td>pH Buffer Solution pH 7.41 ± 0.01 @ 25°C</td>
<td>100ml</td>
</tr>
<tr>
<td>EP918</td>
<td>pH Buffer Solution pH 9.18 ± 0.01 @ 25°C</td>
<td>500ml</td>
</tr>
<tr>
<td>EP918-100</td>
<td>pH Buffer Solution pH 9.18 ± 0.01 @ 25°C</td>
<td>100ml</td>
</tr>
</tbody>
</table>

### European Pharmacopoeia Conductivity & Resistivity

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP133</td>
<td>Conductivity &amp; Resistivity 133 µs/cm @ 20°C</td>
<td>500ml</td>
</tr>
<tr>
<td>EP1330</td>
<td>Conductivity &amp; Resistivity 1330 µs/cm @ 20°C</td>
<td>500ml</td>
</tr>
<tr>
<td>EP266</td>
<td>Conductivity &amp; Resistivity 26.6 µs/cm @ 20°C</td>
<td>500ml</td>
</tr>
</tbody>
</table>

### European Pharmacopoeia Reagent Reference Solutions

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPY101</td>
<td>Reference Solution Y1</td>
<td>100ml</td>
</tr>
<tr>
<td>EPY201</td>
<td>Reference Solution Y2</td>
<td>100ml</td>
</tr>
<tr>
<td>EPY301</td>
<td>Reference Solution Y3</td>
<td>100ml</td>
</tr>
<tr>
<td>EPY401</td>
<td>Reference Solution Y4</td>
<td>100ml</td>
</tr>
<tr>
<td>EPY501</td>
<td>Reference Solution Y5</td>
<td>100ml</td>
</tr>
<tr>
<td>EPY601</td>
<td>Reference Solution Y6</td>
<td>100ml</td>
</tr>
<tr>
<td>EPY701</td>
<td>Reference Solution Y7</td>
<td>100ml</td>
</tr>
</tbody>
</table>

Colouration Reagents as outlined in the European Pharmacopoeia can be seen in the Colour Standards Chapter of this compendium.
Reagecon is pleased to announce a new range of Ready to Use Buffered Eluents for Liquid Chromatography. The control of Mobile Phase pH, when analysing ionisable compounds using HPLC is well recognised. There is also a substantial body of literature supporting the use of pH control when working with field samples of non-ionisable compounds due to the presence of ionisable impurities or contaminants. The use of Reagecon’s high quality buffer systems will minimise variations of mobile phase pH, leading to dramatically improved selectivity, retention factor, peak shape, resolution and reproducibility. These Buffered Eluents, which are not available from any other manufacturer, bring you multiple benefits that include:

- Significant reduction in the amount of time and expense required to prepare them in house - "lean labs"
- Produced according to relevant Pharmacopoeia requirements - no deviation in materials or methodology
- Manufactured under controlled processes and batch certified to ensure lot-to-lot consistency and reproducibility of results

Reagecon has selected 19 of the most commonly recommended buffering systems from scientific literature and from the currently published 2,400 monographs of the USP, these are listed below. However, there are several hundred other buffering systems contained in the monographs and we are happy to quote for these also. The products presented are suitable for use as buffering systems in either solvent or aqueous mobile phases.

### Summary of Features & Benefits:

<table>
<thead>
<tr>
<th>Commercial Benefits</th>
<th>Technical Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduce sample preparation time</td>
<td>Produced in accordance with USP</td>
</tr>
<tr>
<td>Focus on core activities</td>
<td>Consistency of product - Independent, Traceable, Certified</td>
</tr>
<tr>
<td>Ensure Consistency of product</td>
<td>Certificates of Analysis and Safety Data Sheets available online</td>
</tr>
<tr>
<td>Free up valuable Laboratory Space</td>
<td></td>
</tr>
<tr>
<td>Achieve peace of mind</td>
<td></td>
</tr>
</tbody>
</table>

Buffered Eluents
Buffered Eluents

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 500ml</th>
<th>Product No. 1L</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 2 - 6.8g/L Monobasic Potassium Phosphate</td>
<td>USP8005</td>
<td>USP801</td>
</tr>
<tr>
<td>pH 2.5 - 0.01M Phosphoric Acid and 0.01M Monobasic Sodium Phosphate</td>
<td>USP8105</td>
<td>USP8111</td>
</tr>
<tr>
<td>pH 2.5 - Monobasic Potassium Phosphate</td>
<td>USP8205</td>
<td>USP821</td>
</tr>
<tr>
<td>pH 3 - Monobasic Potassium Phosphate</td>
<td>USP8305</td>
<td>USP831</td>
</tr>
<tr>
<td>pH 3.5 - Monobasic Sodium Phosphate</td>
<td>USP8405</td>
<td>USP841</td>
</tr>
<tr>
<td>pH 4 - Monobasic Potassium Phosphate</td>
<td>USP8505</td>
<td>USP8501</td>
</tr>
<tr>
<td>pH 4.5 - Sodium Acetate Trihydrate</td>
<td>USP8605</td>
<td>USP861</td>
</tr>
<tr>
<td>pH 4.5 - Monobasic Potassium Phosphate</td>
<td>USP8705</td>
<td>USP871</td>
</tr>
<tr>
<td>pH 5 - Monobasic Potassium Phosphate</td>
<td>USP8805</td>
<td>USP881</td>
</tr>
<tr>
<td>pH 5.5 - Monobasic / Dibasic Potassium Phosphate</td>
<td>USP8905</td>
<td>USP891</td>
</tr>
<tr>
<td>pH 6 - Monobasic Potassium Phosphate</td>
<td>USP9005</td>
<td>USP901</td>
</tr>
<tr>
<td>pH 6.5 - Monobasic Potassium Phosphate</td>
<td>USP9105</td>
<td>USP911</td>
</tr>
<tr>
<td>pH 6.8 - Monobasic Potassium Phosphate / Dibasic Sodium Phosphate</td>
<td>USP9205</td>
<td>USP921</td>
</tr>
<tr>
<td>pH 6.8 - Monobasic Potassium Phosphate</td>
<td>USP9305</td>
<td>USP931</td>
</tr>
<tr>
<td>pH 7 - Monobasic Potassium Phosphate / Dibasic Sodium Phosphate</td>
<td>USP9405</td>
<td>USP941</td>
</tr>
<tr>
<td>pH 7 - Monobasic Potassium Phosphate / Sodium Hydroxide</td>
<td>USP9505</td>
<td>USP951</td>
</tr>
<tr>
<td>pH 7.5 - Monobasic Potassium Phosphate</td>
<td>USP9605</td>
<td>USP961</td>
</tr>
<tr>
<td>pH 7.5 - Dibasic Potassium / Monobasic Sodium Phosphate</td>
<td>USP9705</td>
<td>USP971</td>
</tr>
<tr>
<td>pH 8 - Monobasic Sodium Phosphate/ DiSodium Hydrogen Phosphate</td>
<td>USP9805</td>
<td>USP981</td>
</tr>
</tbody>
</table>
Reagecon has added a new range of Dissolution Media Concentrates to its manufactured product portfolio.

With Reagecons dissolution media concentrates you take out all preparation steps up to the final mixing, simply add purified water and mix, allowing you to run your dissolution test without delay and at a reduced cost.

Save valuable time per batch!

Allow Reagecon to offer you major savings and improved efficiencies in your dissolution testing by having products which are:

- Prepared according to relevant pharmacopoeia requirements
- Without deviations on materials and methodology from pharmacopoeia
- Guaranteed Accuracy and Stability
- 2 year Shelf Life
- Certificates of Analysis and Safety Data Sheets available online
- Consistency of Product, Independent, Traceable, Certified

### Summary of Features & Benefits:

<table>
<thead>
<tr>
<th>Commercial Benefits</th>
<th>Technical Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduce preparation time</td>
<td>Consistency of product</td>
</tr>
<tr>
<td>Free up resources for core activities</td>
<td>Full regulatory &amp; labelling compliance</td>
</tr>
<tr>
<td>Save valuable bench space</td>
<td>Certificates of Analysis &amp; Safety Data Sheets available online</td>
</tr>
</tbody>
</table>

### Media Preparation
- Consult relevant pharmacopoeias
- Produce BOM
- Calculate quantities of ingredients
- Calibrate balance

28 – 35 mins

### Weighing
- Weigh ingredients
- Measure dangerous concentrates
- Verify weights
- Calibrate pH meter or other equipment

12-36 mins

### Mixing
- Dissolve chemicals
- Make up to volume
- Adjust to volume
- Measure pH & adjust if required
- Mix

8 - 16 mins

Ready for Testing
## Dissolution Media - Concentrates

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Compliant Pharm</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Potassium Phosphate pH 5.8</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC01-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC01-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC01-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 6.0</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC02-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC02-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC02-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td>DBC02-1L</td>
<td>USP &amp; Ph. Eur.</td>
<td>1L of conc. dilutes to 40L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 6.8</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC03-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC03-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC03-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 7.2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC04-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC04-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC04-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td>DBC04-1L</td>
<td>USP &amp; Ph. Eur.</td>
<td>1L of conc. dilutes to 40L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 7.5</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC05-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC05-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC05-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td>DBC05-1L</td>
<td>USP &amp; Ph. Eur.</td>
<td>1L of conc. dilutes to 40L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Acetate Buffer pH 4.5</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC06-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC06-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC06-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Sodium Lauryl Sulphate 0.50%</strong></td>
<td>USP</td>
<td>400ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC07-400</td>
<td>USP</td>
<td>500ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 7.4</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC08-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC08-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC08-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
</tbody>
</table>
## Dissolution Media - Concentrates

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Compliant Pharm</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sodium Phosphate pH 6.8</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC09-230</td>
<td>USP</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC09-250</td>
<td>USP</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC09-960</td>
<td>USP</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Hydrochloric Acid 0.01N</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC10-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC10-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC10-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td>DBC10-1L</td>
<td>USP &amp; Ph. Eur.</td>
<td>1L of conc. dilutes to 40L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Hydrochloric Acid 0.1N</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC11-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC11-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC11-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td>DBC11-1L</td>
<td>USP &amp; Ph. Eur.</td>
<td>1L of conc. dilutes to 40L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Simulated Gastric Fluid without enzyme</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC12-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC12-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC12-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Simulated Intestinal Fluid without enzyme</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC13-230</td>
<td>USP &amp; Ph. Eur.</td>
<td>230.8ml of conc. dilutes to 6L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC13-250</td>
<td>USP &amp; Ph. Eur.</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC13-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Phosphate Buffer pH 6.8</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC14-500</td>
<td>JP</td>
<td>500ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC14-960</td>
<td>JP</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>2nd Dissolution Fluid</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC15-250</td>
<td>JP</td>
<td>250ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC15-960</td>
<td>JP</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 4.5</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC20-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Potassium Chloride 0.05M</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC25-400</td>
<td>USP &amp; Ph. Eur.</td>
<td>400ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td>DBC25-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td>Product No.</td>
<td>Compliant Pharm</td>
<td>Concentration</td>
<td>Pack Size</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------</td>
<td>--------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 4.5</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC40-1L</td>
<td>USP &amp; Ph. Eur.</td>
<td>1L of conc. dilutes to 40L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td>DBC40-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 7.1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC41-1L</td>
<td>USP &amp; Ph. Eur.</td>
<td>1L of conc. dilutes to 40L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td>DBC41-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 8.0</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC42-1L</td>
<td>USP &amp; Ph. Eur.</td>
<td>1L of conc. dilutes to 40L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td>DBC42-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Buffered Sodium Dodecyl Sulphate, pH 7</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC43-500</td>
<td>USP &amp; Ph. Eur.</td>
<td>500ml of conc. dilutes to 10L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 6.8 + 1.0% SDS(Sodium Dodecyl Sulphate)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC44-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 12</td>
</tr>
<tr>
<td><strong>Potassium Phosphate pH 6.8 + 0.5% SDS(Sodium Dodecyl Sulphate)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC45-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Acetate Buffer pH 4.5 + 1.0% SDS(Sodium Dodecyl Sulphate)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC46-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>Acetate Buffer pH 4.5 + 0.5% SDS(Sodium Dodecyl Sulphate)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC47-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>0.1N HCl+1.0% SDS (Sodium Dodecyl Sulphate)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC48-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
<tr>
<td><strong>0.1N HCl+0.5% SDS (Sodium Dodecyl Sulphate)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBC49-960</td>
<td>USP &amp; Ph. Eur.</td>
<td>961.5ml of conc. dilutes to 25L</td>
<td>Pack of 6</td>
</tr>
</tbody>
</table>
Reagecon has added a new range of Ready to Use Dissolution Media to its manufactured product portfolio.

Reagecons dissolution media eliminates all preparation steps allowing you to run your dissolution test without delay and at a reduced cost.

**Summary of Features & Benefits:**

<table>
<thead>
<tr>
<th>Commercial Benefits</th>
<th>Technical Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Reduce preparation time</td>
<td>• Consistency of product</td>
</tr>
<tr>
<td>• Free up resources for core activities</td>
<td>• Full regulatory &amp; labelling compliance</td>
</tr>
<tr>
<td>• Save valuable bench space</td>
<td>• Certificates of Analysis &amp; Safety Data Sheets available online</td>
</tr>
</tbody>
</table>

**Dissolution Media - Ready To Use**

**Commercial Benefits**
- Reduce preparation time
- Free up resources for core activities
- Save valuable bench space

**Technical Benefits**
- Consistency of product
- Full regulatory & labelling compliance
- Certificates of Analysis & Safety Data Sheets available online

**Media Preparation**
- Consult relevant pharmacopeias
- Produce BOM
- Calculate quantities of ingredients
- Calibrate balance
- 28 – 35 mins

**Weighing**
- Weigh ingredients
- Measure dangerous concentrates
- Verify weights
- Calibrate pH meter or other equipment
- 12-36 mins

**Mixing**
- Dissolve chemicals
- Make up to volume
- Adjust to volume
- Measure pH & adjust if required
- Mix
- 8 - 16 mins

**Ready for Testing**

**Save valuable time per batch!**

Allow Reagecon to offer you major savings and improved efficiencies in your dissolution testing by having products which are:

- Prepared according to relevant pharmacopoeia requirements
- Without deviations on materials and methodology from pharmacopoeia
- Guaranteed Accuracy and Stability
- 2 year Shelf Life
- Certificates of Analysis and Safety Data Sheets available online
- Consistency of Product, Independent, Traceable, Certified
# Dissolution Media - Ready to Use

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Compliant Pharmacopoeia</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB10-121</td>
<td>Hydrochloric Acid 0.01N</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB10-25L</td>
<td>Hydrochloric Acid 0.01N</td>
<td>USP &amp; Ph. Eur.</td>
<td>25L</td>
</tr>
<tr>
<td>DB11-121</td>
<td>Hydrochloric Acid 0.1N</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB11-10</td>
<td>Hydrochloric Acid 0.1N</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB11-10L</td>
<td>Hydrochloric Acid 0.1N (Bag in Box)</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB11-20</td>
<td>Hydrochloric Acid 0.1N</td>
<td>USP &amp; Ph. Eur.</td>
<td>20 L</td>
</tr>
<tr>
<td>DB11-25L</td>
<td>Hydrochloric Acid 0.1N</td>
<td>USP &amp; Ph. Eur.</td>
<td>25L</td>
</tr>
<tr>
<td>DB06-121</td>
<td>Acetate Buffer pH 4.5</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB06-10</td>
<td>Acetate Buffer pH 4.5</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB06-20</td>
<td>Acetate Buffer pH 4.5</td>
<td>USP &amp; Ph. Eur.</td>
<td>20 L</td>
</tr>
<tr>
<td>DB01-121</td>
<td>Potassium Phosphate pH 5.8</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB02-121</td>
<td>Potassium Phosphate pH 6.0</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB03-121</td>
<td>Potassium Phosphate pH 6.8, R</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB03-10</td>
<td>Potassium Phosphate pH 6.8, R</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB09-121</td>
<td>Sodium Phosphate pH 6.8</td>
<td>USP</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB04-121</td>
<td>Potassium Phosphate pH 7.2</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB04-10L</td>
<td>Potassium Phosphate pH 7.2</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB08-121</td>
<td>Potassium Phosphate pH 7.4</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB08-10L</td>
<td>Potassium Phosphate pH 7.4</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB08-25L</td>
<td>Potassium Phosphate pH 7.4</td>
<td>USP &amp; Ph. Eur.</td>
<td>25L</td>
</tr>
<tr>
<td>DB05-121</td>
<td>Potassium Phosphate pH 7.5</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB05-10L</td>
<td>Potassium Phosphate pH 7.5</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB07-121</td>
<td>Sodium Lauryl Sulphate 0.50%</td>
<td>USP</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB07-121-25L</td>
<td>Sodium Lauryl Sulphate 0.50%</td>
<td>USP</td>
<td>25L</td>
</tr>
<tr>
<td>DB12-121</td>
<td>Simulated Gastric Fluid, without enzyme</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB12-07</td>
<td>Simulated Gastric Fluid, without enzyme</td>
<td>USP &amp; Ph. Eur.</td>
<td>7 L</td>
</tr>
<tr>
<td>DB12-10</td>
<td>Simulated Gastric Fluid, without enzyme</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB13-121</td>
<td>Simulated Intestinal Fluid, without enzyme</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB14-121</td>
<td>Potassium Phosphate pH 6.80</td>
<td>JP</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB14-10L</td>
<td>Potassium Phosphate pH 6.80</td>
<td>JP</td>
<td>10L</td>
</tr>
<tr>
<td>DB18-121</td>
<td>1st Dissolution Fluid</td>
<td>JP</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB18-10</td>
<td>1st Dissolution Fluid</td>
<td>JP</td>
<td>10L</td>
</tr>
<tr>
<td>DB15-121</td>
<td>2nd Dissolution Fluid</td>
<td>JP</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB15-10L</td>
<td>2nd Dissolution Fluid</td>
<td>JP</td>
<td>10L</td>
</tr>
<tr>
<td>DB16-121</td>
<td>Acetate Buffer pH 5.5</td>
<td>Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB17-121</td>
<td>Acetate Buffer pH 5.8</td>
<td>Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB19-10</td>
<td>HCl/NaCl, pH 1.2</td>
<td>Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB20-10</td>
<td>Phosphate Buffer pH 4.5</td>
<td>Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB21-10</td>
<td>Citrate Buffer 0.05M</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
</tbody>
</table>
Dissolution Media - Ready to Use

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Compliant Pharmacopoeia</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB22-10</td>
<td>Phosphate Buffer pH 7.5</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB27-121</td>
<td>Buffered Sodium Dodecyl Sulphate, pH 7</td>
<td>USP &amp; Ph. Eur.</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>DB27-10</td>
<td>Buffered Sodium Dodecyl Sulphate, pH 7</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB28-10L</td>
<td>Di Sodium Phosphate 55.3g + Citric Acid 4.8g, adjust to pH 6.8</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
<tr>
<td>DB24-10</td>
<td>Phosphate Buffer pH 7.00</td>
<td>USP &amp; Ph. Eur.</td>
<td>10L</td>
</tr>
</tbody>
</table>

Dissolution FaSSIF

Biorelevant intestinal media, first proposed by Galia et al in 1998, are media that simulate intestinal fluids secreted under both fasting or feed state conditions \(^{[1]}\). These laboratory prepared solutions share physiochemical properties with corresponding fluids found in-vivo and are used to mimic the properties of the in-vivo fluids for drug solubility and dissolution characteristics.

Such media contain the bile salt Sodium Taurocholate and Lecithin dissolved in a slightly acid phosphate buffer which is tested for pH, osmolality and buffer capacity, which simulates the in-vivo solution in the upper small intestinal region, which is where the majority of drugs are absorbed \(^{[2]}\).

Reagecon offers the buffering system in a number of formulations and pack sizes, which are dependent on whether the medium under test is simulating fasting or feed state conditions.


\(^{[2]}\) Leigh, M.; Kloefer, B.; and Schaich, M. Comparison of the Solubility and Dissolution of Drugs in Fasted-State Biorelevant Media (FaSSIF and FaSSIF-V2), Dissolution Technologies, August 2013, 44-50.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASSIF5</td>
<td>Dissolution Media FaSSIF pH 6.5 (without enzyme)</td>
<td>5L</td>
</tr>
<tr>
<td>FASSIFV21</td>
<td>Dissolution Media FaSSIF V2 - pH 6.5 - (without enzyme)</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>FASSIFV210</td>
<td>Dissolution Media FaSSIF V2 - pH 6.5 (without enzyme)</td>
<td>10L</td>
</tr>
<tr>
<td>FESSIFV21</td>
<td>Dissolution Media FeSSIF V2 - pH 5.8 - (without enzyme)</td>
<td>12 x 1L</td>
</tr>
<tr>
<td>FESSIFV210</td>
<td>Dissolution Media FeSSIF V2 - pH 5.8 (without enzyme)</td>
<td>10L</td>
</tr>
</tbody>
</table>
Analytical tests to evaluate dairy products cover a wide variety of materials of different chemical and physical composition. These include products that contain milk in either dilute or concentrated format, various consistencies ranging from liquid to solid and in some instances products that have several non-dairy products added.

Because of this variety the fitness for purpose aspect in selecting the most appropriate methodology is critical. Method selection will also depend on whether the test is being carried out for regulatory or compliance reasons, for quality control, quality assurance, food safety, or product stability purposes.

Reagecon manufactures a wide range of Physical and Chemical Standards that are appropriate to the testing of dairy products. Several of these products, which are specific or unique to the dairy industry, are listed in this section. Several others relating to the measurement of pH, Conductivity, Refractive Index, Density, Metals and Anions are listed under the appropriate headings elsewhere in this catalogue.

Standards and reagents relevant to the measurement of vitamins, food additives, preservatives, colours, flavours, fragrances, sugars and sanitisation residues/by-products are currently under development. Updates on this development pipeline can be tracked and viewed at www.reagecon.com.

### Reagents & Standards for the Dairy Industry

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUFMT1</td>
<td>Gerber Test Sulphuric Acid FMT d. 1.815-1.825</td>
<td>1L</td>
</tr>
<tr>
<td>SUFMT5</td>
<td>Gerber Test Sulphuric Acid FMT d. 1.815-1.825</td>
<td>5L</td>
</tr>
<tr>
<td>SUFMT25</td>
<td>Gerber Test Sulphuric Acid FMT d. 1.815-1.825</td>
<td>25L</td>
</tr>
<tr>
<td>SUFMTJ</td>
<td>Gerber Test Sulphuric Acid FMT d. 1.815-1.825</td>
<td>2.5L</td>
</tr>
<tr>
<td>BOA21</td>
<td>Kjeldahl Reagent 2% w/v Boric Acid Solution without indicator</td>
<td>1L</td>
</tr>
<tr>
<td>BOA25</td>
<td>Kjeldahl Reagent 2% w/v Boric Acid Solution without indicator</td>
<td>5L</td>
</tr>
<tr>
<td>BOA10</td>
<td>Kjeldahl Reagent 2% w/v Boric Acid Solution without indicator</td>
<td>10L</td>
</tr>
<tr>
<td>BOA225</td>
<td>Kjeldahl Reagent 2% w/v Boric Acid Solution without indicator</td>
<td>25L</td>
</tr>
<tr>
<td>S30WW5</td>
<td>Kjeldahl Reagent 30% w/w (40% w/v) Sodium Hydroxide</td>
<td>5L</td>
</tr>
<tr>
<td>S30WWLN</td>
<td>Kjeldahl Reagent 30% w/w (40% w/v) Sodium Hydroxide</td>
<td>5L</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td>KJR015</td>
<td>Kjeldahl Reagent 4% w/v Boric Acid Solution with indicator</td>
<td>5L</td>
</tr>
<tr>
<td>BOA41</td>
<td>Kjeldahl Reagent 4% w/v Boric Acid Solution without indicator</td>
<td>1L</td>
</tr>
<tr>
<td>BOA4</td>
<td>Kjeldahl Reagent 4% w/v Boric Acid Solution without indicator</td>
<td>5L</td>
</tr>
<tr>
<td>BOA425</td>
<td>Kjeldahl Reagent 4% w/v Boric Acid Solution without indicator</td>
<td>25L</td>
</tr>
<tr>
<td>ST840</td>
<td>Kjeldahl Reagent 40% w/v Sodium Hydroxide/8% Sodium Thiosulphate</td>
<td>25L</td>
</tr>
<tr>
<td>ST841</td>
<td>Kjeldahl Reagent 40% w/v Sodium Hydroxide/8% Sodium Thiosulphate</td>
<td>5L</td>
</tr>
<tr>
<td>WTR045</td>
<td>Barium Chloride Solution 10% w/v</td>
<td>5L</td>
</tr>
<tr>
<td>BOAI205</td>
<td>Kjeldahl Reagent 2% w/v Boric Acid with indicator (methylene blue and red methyl)</td>
<td>5L</td>
</tr>
<tr>
<td>BOAI225</td>
<td>Kjeldahl Reagent 2% Boric Acid Solution with indicator</td>
<td>25L</td>
</tr>
<tr>
<td>BOA3310</td>
<td>Kjeldahl Reagent 3.3% w/v Boric Acid Solution</td>
<td>10L</td>
</tr>
<tr>
<td>PFS1</td>
<td>Indicator Solution Ferroin Indicator</td>
<td>100ml</td>
</tr>
<tr>
<td>FEA25</td>
<td>Indicator Solution Iron Alum (Volhard)</td>
<td>250ml</td>
</tr>
<tr>
<td>MTR05025</td>
<td>Indicator Methyl Orange Alcoholic Solution 0.1%</td>
<td>250ml</td>
</tr>
<tr>
<td>IPT01H</td>
<td>Indicator Phenolphthalein 0.1%</td>
<td>500ml</td>
</tr>
<tr>
<td>IPT05F</td>
<td>Indicator Phenolphthalein Alcoholic Solution 0.5%</td>
<td>1L</td>
</tr>
<tr>
<td>IPT05W</td>
<td>Indicator Phenolphthalein Alcoholic Solution 0.5%</td>
<td>2.5L</td>
</tr>
<tr>
<td>IPT10H</td>
<td>Indicator Phenolphthalein 1%</td>
<td>500ml</td>
</tr>
<tr>
<td>IPT10W</td>
<td>Indicator Phenolphthalein Alcoholic Solution 1.0%</td>
<td>2.5L</td>
</tr>
<tr>
<td>IPT1025</td>
<td>Indicator Phenolphthalein 1%</td>
<td>250ml</td>
</tr>
<tr>
<td>IPT16W</td>
<td>Indicator Phenolphthalein 1.6%</td>
<td>2.5L</td>
</tr>
<tr>
<td>PCS5</td>
<td>Indicator Solution Potassium Chromate 5%</td>
<td>500ml</td>
</tr>
<tr>
<td>TB04F</td>
<td>Indicator Thymol Blue Alcoholic Solution 0.04%</td>
<td>500ml</td>
</tr>
<tr>
<td>NPD03</td>
<td>Phosphatase Test 4-Nitrophenyl Di-Sodium Phosphate</td>
<td>12 x 0.15g</td>
</tr>
<tr>
<td>NPD04</td>
<td>Phosphatase Test Carbonate Bi-Carbonate Buffer (Aschafenburg and Mullen Phosphatase Test Buffer)</td>
<td>12 x 2.5g</td>
</tr>
<tr>
<td>CH3CN501</td>
<td>Acetonitrile, 50% v/v</td>
<td>1L</td>
</tr>
<tr>
<td>BAB2O41</td>
<td>Barium Borate-Hydroxide Buffer</td>
<td>1L</td>
</tr>
<tr>
<td>BAOH011</td>
<td>Barium Hydroxide, 0.1N</td>
<td>1L</td>
</tr>
<tr>
<td>BOR0091</td>
<td>Borax Buffer, 0.00996M</td>
<td>1L</td>
</tr>
<tr>
<td>BUT7051</td>
<td>n-Butanol, 7.5% v/v</td>
<td>1L</td>
</tr>
<tr>
<td>CUS051</td>
<td>Copper Sulfate, CuSO₄, 0.05%</td>
<td>1L</td>
</tr>
<tr>
<td>CUS11</td>
<td>Copper Sulfate Solution 1%</td>
<td>1L</td>
</tr>
<tr>
<td>CUSSOLA</td>
<td>Copper Sulfate Solution A 440.9mg Cu/25ml</td>
<td>1L</td>
</tr>
<tr>
<td>CUSSOLB</td>
<td>Copper Sulfate Solution B 72.5g/L</td>
<td>1L</td>
</tr>
<tr>
<td>FESO41</td>
<td>Ferrous Sulfate Solution</td>
<td>1L</td>
</tr>
<tr>
<td>PBA101</td>
<td>Lead Acetate Solution (CH COO) Pb, 10%</td>
<td>1L</td>
</tr>
<tr>
<td>PB00574</td>
<td>Phosphate Buffer 0.05M pH 7.4</td>
<td>1L</td>
</tr>
<tr>
<td>EFSKNO</td>
<td>Electrode Filling Solution Double Junction Bridge Solution 10% w/v Potassium Nitrate</td>
<td>100ml</td>
</tr>
<tr>
<td>PP500F</td>
<td>Potassium Permanganate 5% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>PP500W</td>
<td>Potassium Permanganate 5% w/v</td>
<td>2.5L</td>
</tr>
<tr>
<td>S2WW1</td>
<td>Sodium Hydroxide 2% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>ZS601</td>
<td>Zinc Sulphate, ZnSO₄, 6% w/v</td>
<td>1L</td>
</tr>
</tbody>
</table>
Standards & Reagents for APHA, AWWA & WEF Test Methods

Test procedures specifically for the examination of a wide spectrum of parameters in water and waste water are published in a volume called Standard Methods. Sample types may include potable/domestic water, surface water, ground water or cooling, circulating, boiler, municipal and waste waters. First published in 1905, Standard Methods is now in its 22nd Edition. It is published jointly by the American Public Health Association (APHA), American Water Works Association (AWWA), and the Water Environment Federation (WEF).

Standard Methods covers a vast array of analytes and properties. Products developed specifically for Standard Methods are listed below, but other stipulated Standards and Reagents can be found in almost every chapter of this catalogue.

Standards & Reagents for APHA, AWWA and WEF Test Methods

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALKSO42101</td>
<td>Alum Solution 10% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>NH4CLO41</td>
<td>Ammonium Chloride Standard 0.05M</td>
<td>1L</td>
</tr>
<tr>
<td>NH32S01</td>
<td>Ammonium Hydroxide 5M</td>
<td>1L</td>
</tr>
<tr>
<td>NHMO41</td>
<td>Ammonium Molybdate 4% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>NH4C2O41</td>
<td>Ammonium Oxalate 4% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>NH4C2O51</td>
<td>Ammonium Oxalate 5% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>NH4P301</td>
<td>Ammonium Phosphate 30% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>NH4P401</td>
<td>Ammonium Phosphate 40% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>NH4P501</td>
<td>Ammonium Phosphate 50% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>NHS101</td>
<td>Ammonium Sulfate 10% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>NAB11</td>
<td>Borax 1% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>CUS0221</td>
<td>Copper Sulfate, CuSO₄ 2% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>PFS1</td>
<td>Ferroin Indicator</td>
<td>100ml</td>
</tr>
<tr>
<td>GLYC71</td>
<td>Glycine 7% w/v Aqueous Solution for Ozone</td>
<td>1L</td>
</tr>
<tr>
<td>HGN200071</td>
<td>Mercuric Nitrate 0.00705M</td>
<td>1L</td>
</tr>
<tr>
<td>PP20002F</td>
<td>Potassium Permanganate 0.01N</td>
<td>1L</td>
</tr>
<tr>
<td>SA02F</td>
<td>Sodium Acetate 0.2M</td>
<td>1L</td>
</tr>
<tr>
<td>SA2F</td>
<td>Sodium Acetate 2M</td>
<td>1L</td>
</tr>
<tr>
<td>SA2005W</td>
<td>Sodium Arsenite 0.05M (0.1N )</td>
<td>2.5L</td>
</tr>
<tr>
<td>N20014W</td>
<td>Silver Nitrate 0.0141M (0.0141N)</td>
<td>2.5L</td>
</tr>
<tr>
<td>TBO8F</td>
<td>Thymol Blue, 0.08% (w/v) in Methanol</td>
<td>1L</td>
</tr>
<tr>
<td>CH3C2N101</td>
<td>Zinc Acetate 10% w/v</td>
<td>1L</td>
</tr>
</tbody>
</table>
Wine Standards & Reagents

Wine & Must Analysis

The Compendium of International Methods of Wine and Must Analysis (edition 2013) includes all test methods, approved by the General Assembly of Representatives of the Member Governments of the OIV (International Organisation of Vine and Wine) up to June 2012. First published in 1962, the European Union now recognises all of the test methods in the Compendium for the testing and control of Viticultural Products. Through its role in harmonising methods of analysis, the Compendium facilitates globalisation within the wine industry and in conjunction with the International Code of Oenological Practices and the International Oenological Codex contains content of enormous scientific value.

Each method of analysis contained within the Compendium, contains considerable detail on the Reagents, Standards, Reference Materials and Analytical Volumetric Solutions required to perform that particular method. We are proud to present throughout this catalogue, the most comprehensive range of products available on the market for Wine and Must Analysis, irrespective of whether the methodology is instrumental or manual. Products developed specifically for Wine and Must analysis are contained in this chapter but products of relevance can be found in almost every part of this catalogue. All products contained herein either match or exceed the specifications laid down in the Compendium. Reagecon has a large department dedicated to the development of Industry Specific Customised products and several additional products are under development for Wine and Must Analysis. We believe the products presented will meet or exceed your expectations, bring scientific rigour to your analytical techniques and offer you real value for money.

Standards & Reagents for the Wine Industry

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>KNAT08861</td>
<td>Alkaline Solution (Potassium Sodium Tartrate) 0,886M</td>
<td>1L</td>
</tr>
<tr>
<td>CAOH2M105</td>
<td>Calcium Hydroxide 2M Suspension</td>
<td>500ml</td>
</tr>
<tr>
<td>CAOH2M1</td>
<td>Calcium Hydroxide 2M Suspension</td>
<td>1L</td>
</tr>
<tr>
<td>CUS11</td>
<td>Copper Sulfate Solution 1%</td>
<td>1L</td>
</tr>
<tr>
<td>CUS101</td>
<td>Copper Sulfate Solution 10%</td>
<td>1L</td>
</tr>
<tr>
<td>DEXT0055</td>
<td>Dextrose Solution 0.5%</td>
<td>500ml</td>
</tr>
<tr>
<td>NATB46</td>
<td>di-Sodium tetra-Borate 10-hydrate Solution 4.6%</td>
<td>100ml</td>
</tr>
<tr>
<td>FS0101</td>
<td>Fehlings Solution No. 1</td>
<td>1L</td>
</tr>
<tr>
<td>FS010105</td>
<td>Fehlings Solution No. 1</td>
<td>500ml</td>
</tr>
<tr>
<td>FS0102</td>
<td>Fehlings Solution No. 2</td>
<td>1L</td>
</tr>
<tr>
<td>FS010205</td>
<td>Fehlings Solution No. 2</td>
<td>500ml</td>
</tr>
<tr>
<td>FOCIREE01</td>
<td>Folin-Ciocalteu’s Reagent</td>
<td>100ml</td>
</tr>
<tr>
<td>K2SO41</td>
<td>Gypsumetric Liquor - 1ml corresponds to 0.01g</td>
<td>100ml</td>
</tr>
<tr>
<td>H20011</td>
<td>Hydrochloric Acid 0.01N 0.01M</td>
<td>1L</td>
</tr>
<tr>
<td>H20101</td>
<td>Hydrochloric Acid 0.1N 0.1M</td>
<td>1L</td>
</tr>
<tr>
<td>H210G1</td>
<td>Hydrochloric Acid 10 g/l</td>
<td>1L</td>
</tr>
<tr>
<td>Product No.</td>
<td>Description</td>
<td>Pack Size</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>H21001</td>
<td>Hydrochloric Acid 1.0N 1.0M</td>
<td>1L</td>
</tr>
<tr>
<td>HCL115</td>
<td>Hydrochloric Acid 50% v/v</td>
<td>5L</td>
</tr>
<tr>
<td>HP0905</td>
<td>Hydrogen Peroxide 0.9% w/v</td>
<td>500ml</td>
</tr>
<tr>
<td>HP1005</td>
<td>Hydrogen Peroxide 10% w/v stabilised</td>
<td>500ml</td>
</tr>
<tr>
<td>HP1505</td>
<td>Hydrogen Peroxide 15%</td>
<td>500ml</td>
</tr>
<tr>
<td>HP25VV05</td>
<td>Phosphoric Acid 25%</td>
<td>500ml</td>
</tr>
<tr>
<td>HP301</td>
<td>Hydrogen Peroxide 3% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>HP305</td>
<td>Hydrogen Peroxide 3% w/v</td>
<td>5L</td>
</tr>
<tr>
<td>I2001F</td>
<td>Iodine 0.01M 0.02N</td>
<td>1L</td>
</tr>
<tr>
<td>I2001H</td>
<td>Iodine 0.01M 0.02N</td>
<td>500ml</td>
</tr>
<tr>
<td>I2005F</td>
<td>Iodine 0.1N 0.05M</td>
<td>1L</td>
</tr>
<tr>
<td>I2005H</td>
<td>Iodine 0.1N 0.05M</td>
<td>500ml</td>
</tr>
<tr>
<td>I20031H</td>
<td>Iodine N/64</td>
<td>500ml</td>
</tr>
<tr>
<td>KFECN10WV1</td>
<td>Potassium Hexacyanoferrate (II) Solution 10% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>KOH21001</td>
<td>Potassium Hydroxide 1.0N 1.0M</td>
<td>1L</td>
</tr>
<tr>
<td>KOH20101</td>
<td>Potassium Hydroxide 0.1N 0.1M</td>
<td>1L</td>
</tr>
<tr>
<td>KI20WV1</td>
<td>Potassium Iodide 20% Solution</td>
<td>1L</td>
</tr>
<tr>
<td>KI30WV1</td>
<td>Potassium Iodide Solution 30% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>KT20WV1</td>
<td>Potassium Thiocyanate Solution 20% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>KT5WV1</td>
<td>Potassium Thiocyanate Solution 5% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>SCS20WV1</td>
<td>Sodium Carbonate 20%</td>
<td>1L</td>
</tr>
<tr>
<td>S20011</td>
<td>Sodium Hydroxide 0.01N 0.01M</td>
<td>1L</td>
</tr>
<tr>
<td>S20021</td>
<td>Sodium Hydroxide 0.02N 0.02M</td>
<td>1L</td>
</tr>
<tr>
<td>S20101</td>
<td>Sodium Hydroxide 0.1N 0.1M</td>
<td>1L</td>
</tr>
<tr>
<td>S201321</td>
<td>Sodium Hydroxide 0.1332N 0.1332M</td>
<td>1L</td>
</tr>
<tr>
<td>S20401</td>
<td>Sodium Hydroxide 0.4N 0.4M</td>
<td>1L</td>
</tr>
<tr>
<td>S216661</td>
<td>Sodium Hydroxide 1.666N 1.666M</td>
<td>1L</td>
</tr>
<tr>
<td>S10WV1</td>
<td>Sodium Hydroxide 10%</td>
<td>1L</td>
</tr>
<tr>
<td>S10001</td>
<td>Sodium Hydroxide 10N 10M</td>
<td>1L</td>
</tr>
<tr>
<td>S201005</td>
<td>Sodium Hydroxide 0.1N 0.1M</td>
<td>500ml</td>
</tr>
<tr>
<td>S20501</td>
<td>Sodium Hydroxide 0.5N 0.5M</td>
<td>1L</td>
</tr>
<tr>
<td>S2035461</td>
<td>Sodium Hydroxide 0.35465N 0.35465M</td>
<td>1L</td>
</tr>
<tr>
<td>SU33VV1</td>
<td>Sulphuric Acid 33% (v/v)</td>
<td>1L</td>
</tr>
<tr>
<td>SU2501</td>
<td>Sulphuric Acid 1:4 (v/v)</td>
<td>1L</td>
</tr>
<tr>
<td>SU20VV1</td>
<td>Sulphuric Acid 1:5 v/v</td>
<td>1L</td>
</tr>
<tr>
<td>T20021</td>
<td>Sodium Thiosulphate 0.02N 0.02M</td>
<td>1L</td>
</tr>
<tr>
<td>T20101</td>
<td>Sodium Thiosulphate 0.1N 0.1M</td>
<td>1L</td>
</tr>
<tr>
<td>T2005511</td>
<td>Sodium Thiosulphate 0.0551N 0.0551M</td>
<td>1L</td>
</tr>
<tr>
<td>T20501</td>
<td>Sodium Thiosulphate 0.5N 0.5M</td>
<td>1L</td>
</tr>
<tr>
<td>ST105</td>
<td>Starch Solution 1%</td>
<td>500ml</td>
</tr>
<tr>
<td>ST1001</td>
<td>Starch Solution 1%</td>
<td>1L</td>
</tr>
<tr>
<td>TISAB-WINE</td>
<td>TISAB for wine analysis (Dir. 2676/90) for the fluoride determination by selective electrodes</td>
<td>250ml</td>
</tr>
</tbody>
</table>
Coloured Indicators for the Wine Industry.
Further indicators can be found in the section Analytical Volumetric Solutions.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TASHI010</td>
<td>Indicator Solution for Mixed Sulphur</td>
<td>100ml</td>
</tr>
<tr>
<td>BRCC1501</td>
<td>Bromocresol Green Indicator, 1%</td>
<td>100ml</td>
</tr>
<tr>
<td>BRTH040250</td>
<td>Bromothymol Blue Indicator 0.4%</td>
<td>250ml</td>
</tr>
<tr>
<td>BRTH05</td>
<td>Bromothymol Blue Indicator, 0.04%</td>
<td>500ml</td>
</tr>
<tr>
<td>IPT1025</td>
<td>Indicator Phenolphthalein 1%</td>
<td>250ml</td>
</tr>
<tr>
<td>MTBLU10250</td>
<td>Indicator Methylene Blue 1%</td>
<td>250ml</td>
</tr>
<tr>
<td>BRBP05</td>
<td>Bromophenol Blue Indicator, 0.04% Aqueous Solution</td>
<td>500ml</td>
</tr>
<tr>
<td>1063601</td>
<td>Phenol Red Indicator Solution</td>
<td>100ml</td>
</tr>
<tr>
<td>1055102</td>
<td>Methyl Red Indicator Solution 0.02%</td>
<td>100ml</td>
</tr>
</tbody>
</table>

Ethanol Density Standards for calibration of alcoholometers and densimeters in Oenology.
For more Density Standards please see chapters dedicated to Density.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET08VV025</td>
<td>8.5% v/v Ethanol/Water - nominal density 0.98654g/ml</td>
<td>250ml</td>
</tr>
<tr>
<td>ET10VV025</td>
<td>10% v/v Ethanol/Water - nominal density 0.9865g/ml</td>
<td>250ml</td>
</tr>
<tr>
<td>ET11VV025</td>
<td>11% v/v Ethanol/Water - nominal density 0.98352g/ml</td>
<td>250ml</td>
</tr>
<tr>
<td>ET12VV025</td>
<td>12% v/v Ethanol/Water - nominal density 0.98235g/ml</td>
<td>250ml</td>
</tr>
<tr>
<td>ET13VV025</td>
<td>13.5% v/v Ethanol/Water - nominal density 0.98065g/ml</td>
<td>250ml</td>
</tr>
<tr>
<td>ET14VV025</td>
<td>14% v/v Ethanol/Water - nominal density 0.98008g/ml</td>
<td>250ml</td>
</tr>
<tr>
<td>ET16VV025</td>
<td>16% v/v Ethanol/Water - nominal density 0.97787g/ml</td>
<td>250ml</td>
</tr>
<tr>
<td>ET20VV025</td>
<td>20% v/v Ethanol/Water - nominal density 0.97356g/ml</td>
<td>250ml</td>
</tr>
</tbody>
</table>

Brix Standards for the Wine Industry.
For further Refractive Index & Brix standards please see chapters dedicated to this subject area.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Nominal Refractive Index @ 20°C</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS149</td>
<td>Sucrose (Brix) Standard 14.9% Sucrose in Water</td>
<td>1.36</td>
<td>15ml</td>
</tr>
<tr>
<td>BS194</td>
<td>Sucrose (Brix) Standard 19.4% Sucrose in Water</td>
<td>1.36</td>
<td>15ml</td>
</tr>
<tr>
<td>BS238</td>
<td>Sucrose (Brix) Standard 23.8% Sucrose in Water</td>
<td>1.37</td>
<td>15ml</td>
</tr>
</tbody>
</table>
The testing of soil is a large and rapidly growing area within Analytical Science worldwide. A survey published in the USA in 1998 found that about 5 million samples were analysed annually in that country and even then this number was considered an underestimation. When the rapid growth in this area is factored in and the numbers extrapolated on a worldwide basis, soil testing is now a significant component of the work of public, commercial and fertilizer company laboratories in all crop growing areas of the world.

This growth is driven by the need to provide growers with accurate information as an enabler to applying correct and economical quantities of fertilizer, and monitor soil fertility. Secondly it is driven by a requirement that farmers/growers and environmental protectors operate in an environmentally friendly way, thus reducing pollution of food, air, waterways and other amenities.

For soil analysis to be effective and efficient it is vital that testing methodologies are standardized, traceable, comparable and of known measurement uncertainty. A significant recent development has been the acceleration of quality assurance, quality control and the use of proficiency testing in soil testing laboratories. Added to these advances, has been a worldwide proliferation in the numbers of soil laboratories being awarded various certificates and accreditations, e.g. ISO 17025.

A pivotal constituent to all of these advances is the availability of high quality Standards (physical and chemical) and Reagents. This catalogue contains the largest selection of products relevant to soil testing available worldwide. The products are presented in three ways. Firstly, they can be accessed in the various catalogue sections, which are categorized on the basis of application. These include standards for metals, anions, conductivity and pH. They also include organic standards for pollutants including Pesticides, Phenols, Volatile Organic Carbons and Polycyclic Aromatic Hydrocarbons as examples.

Secondly, this section covers several Analytical Volumetric Solutions, Indicators, Extraction Solutions and Reagents for various specific soil testing methods. This list is indicative only. Finally Reagecon has the capability, competence, track record and experience to offer an outstanding range of bespoke products for a wide variety of methods relating to soil analysis.

We hope you find the products in this section and the remainder of the catalogue helpful. For quotes or information on additional products contact us at sales@reagecon.ie.
<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHFED01</td>
<td>Ammonium Fluoride-EDTA Stock Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>APDC01</td>
<td>APDC Butyl Acetate-Ethanol Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>BSE01</td>
<td>Boron Standard in Extraction Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>BRAY01</td>
<td>Bray P1 Extracting Reagent Concentrate</td>
<td>1L</td>
</tr>
<tr>
<td>BMASK01</td>
<td>Buffer Masking Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>CACLSS01</td>
<td>Calcium Chloride Stock Solution</td>
<td>1L</td>
</tr>
<tr>
<td>CACL20011</td>
<td>Calcium Chloride 0.02N 0.01M</td>
<td>1L</td>
</tr>
<tr>
<td>CTA01</td>
<td>Chromotropic Acid Solution (CTA)</td>
<td>1L</td>
</tr>
<tr>
<td>CUZS01</td>
<td>Copper Standard in Extracting Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>CUEZ01</td>
<td>Copper-Zinc Standard</td>
<td>1L</td>
</tr>
<tr>
<td>CTAPAE01</td>
<td>DTPA Extraction Reagent Concentrate</td>
<td>1L</td>
</tr>
<tr>
<td>DTPA00051</td>
<td>DTPA Solution, 0.005M</td>
<td>1L</td>
</tr>
<tr>
<td>H26001</td>
<td>Hydrochloric Acid 6.0N 6.0M</td>
<td>1L</td>
</tr>
<tr>
<td>FEE01</td>
<td>Iron Standard in Extraction Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>LACSL01</td>
<td>Lanthanum Compensating Solution</td>
<td>1L</td>
</tr>
<tr>
<td>LIWS01</td>
<td>Lithium Working Solution, 130.14ppm</td>
<td>1L</td>
</tr>
<tr>
<td>MGCLS01</td>
<td>Magnesium Chloride Stock Solution</td>
<td>1L</td>
</tr>
<tr>
<td>MGER01</td>
<td>Magnesium Standard in Extracting Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>ICCB07</td>
<td>Magnesium 1000ppm in H2O</td>
<td>500ml</td>
</tr>
<tr>
<td>MNES01</td>
<td>Manganese Standard in Extracting Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>MEHL101</td>
<td>Mehlich #1 Extracting Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>MEHL301</td>
<td>Mehlich #3 Final Extraction Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>MEHLBS01</td>
<td>Mehlich Buffer Solution</td>
<td>1L</td>
</tr>
<tr>
<td>MEHLBE01</td>
<td>Mehlich-Bowling Extracting Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>MOREXT</td>
<td>Morgans Extracting Solution</td>
<td>25L</td>
</tr>
<tr>
<td>SOIILSP01</td>
<td>MS Soil Spike Standard</td>
<td>1L</td>
</tr>
<tr>
<td>SOIILSS01</td>
<td>MS Soil Spike Standard #2</td>
<td>1L</td>
</tr>
<tr>
<td>NIES01</td>
<td>Nickel Standard in Extraction Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>NNER01</td>
<td>Nitrate-Nitrogen Extracting Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>NNS01</td>
<td>Nitrate-Nitrogen Standard</td>
<td>1L</td>
</tr>
<tr>
<td>NERO1</td>
<td>Nitrogen Standard in Extracting Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>OLSE01</td>
<td>Olsen's Extraction Reagent Concentrate</td>
<td>1L</td>
</tr>
<tr>
<td>OLSTMR01</td>
<td>Olsen's Mixed Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>KCR267F</td>
<td>Potassium Dichromate Reagent, 0.267N</td>
<td>1L</td>
</tr>
<tr>
<td>SMPB01</td>
<td>SMP Buffer Solution</td>
<td>1L</td>
</tr>
<tr>
<td>NAACLSS01</td>
<td>Sodium Chloride Stock Solution</td>
<td>1L</td>
</tr>
<tr>
<td>NASER01</td>
<td>Sodium Standard in Extraction Reagent</td>
<td>1L</td>
</tr>
<tr>
<td>SPISSL01</td>
<td>Spiking Solution for Water and Soil</td>
<td>1L</td>
</tr>
<tr>
<td>SRCQL201</td>
<td>Strontium Chloride Diluting Solution</td>
<td>1L</td>
</tr>
<tr>
<td>MEHLS01</td>
<td>Mehlich #1 Sulfuric-Molybdate Solution</td>
<td>1L</td>
</tr>
</tbody>
</table>
Pulp & Paper Standards & Reagents

Pulp & Paper Process Testing

Reagecon offers the largest range of Reagents, Standards and Analytical Volumetric Solutions available in the market place for this important and heavily regulated industry. These products facilitate savings in time and money and offer traceability, comparability and convenience. A large part of the pulp and paper process industry uses Standard Test Methods developed through an organisation called TAPPI (Technical Association of the Pulp and Paper Industry).

TAPPI Standards may be in the form of Test Methods or other documents that include specifications, guidelines and practices. These are available from the organisation as a compendium for a wide range of physical, organic and inorganic analyses using manual and instrumental techniques. Tolerances and guidelines are provided for all Reagents and Standards specified and Reagecon matches or exceeds these tolerances in all cases. Products listed in most sections of this catalogue are relevant to pulp and paper process testing. This section contains a range of products developed specifically for TAPPI methods.

A list of Reagecon part numbers that are cross referenced to each TAPPI method is available upon request.


<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH3C00HZ01</td>
<td>Acetic Acid, CH3COOH, 20% v/v</td>
<td>1L</td>
</tr>
<tr>
<td>WTR040125</td>
<td>Barium Chloride Solution 10% w/v</td>
<td>125ml</td>
</tr>
<tr>
<td>WTR0405</td>
<td>Barium Chloride Solution 10% w/v</td>
<td>500ml</td>
</tr>
<tr>
<td>WTR041</td>
<td>Barium Chloride Solution 10% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>WTR045</td>
<td>Barium Chloride Solution 10% w/v</td>
<td>5L</td>
</tr>
<tr>
<td>WTR061</td>
<td>Barium Chloride Solution 12% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>WTR081</td>
<td>Barium Chloride Solution 20% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>H25VVJ</td>
<td>Hydrochloric Acid 25% v/v pure</td>
<td>2.5L</td>
</tr>
<tr>
<td>H2051671</td>
<td>Hydrochloric Acid, HCl, 0.5167M</td>
<td>1L</td>
</tr>
<tr>
<td>H207331</td>
<td>Hydrochloric Acid, HCl, 0.773M</td>
<td>1L</td>
</tr>
<tr>
<td>KI10WV1</td>
<td>Potassium Iodide, KI, 10% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>PP2002F</td>
<td>Potassium Permanganate 0.02M (0.1N)</td>
<td>1L</td>
</tr>
<tr>
<td>N201709F</td>
<td>Silver Nitrate 0.1709M (0.1709N)</td>
<td>1L</td>
</tr>
<tr>
<td>N20250F</td>
<td>Silver Nitrate 0.25M (0.25N)</td>
<td>1L</td>
</tr>
<tr>
<td>S20011</td>
<td>Sodium Hydroxide 0.01M (0.01N)</td>
<td>1L</td>
</tr>
<tr>
<td>S203131</td>
<td>Sodium Hydroxide 0.313M (0.313N)</td>
<td>1L</td>
</tr>
<tr>
<td>T20101</td>
<td>Sodium Thiosulphate 0.1M (0.1N)</td>
<td>1L</td>
</tr>
<tr>
<td>T20201</td>
<td>Sodium Thiosulphate 0.2M (0.2N)</td>
<td>1L</td>
</tr>
<tr>
<td>T20201</td>
<td>Sodium Thiosulphate 0.2M (0.2N)</td>
<td>1L</td>
</tr>
<tr>
<td>T21001</td>
<td>Sodium Thiosulphate 1.0M (1.0N)</td>
<td>1L</td>
</tr>
<tr>
<td>SU2012751</td>
<td>Sulphuric Acid 0.1275M (0.255N)</td>
<td>1L</td>
</tr>
<tr>
<td>SU222001</td>
<td>Sulphuric Acid 2.0M (4.0N)</td>
<td>1L</td>
</tr>
</tbody>
</table>
Laboratory Water

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 5L</th>
<th>Product No. 10L</th>
<th>Product No. 25L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purified Water</td>
<td>H2O5</td>
<td>H2O10</td>
<td>H2O25</td>
</tr>
<tr>
<td>Deionised Water</td>
<td>Y00185</td>
<td>Y001810</td>
<td>Y0018</td>
</tr>
<tr>
<td>Analytical Grade Water</td>
<td>H2O5AG</td>
<td>H2O810AG</td>
<td>H2O25AG</td>
</tr>
<tr>
<td>Artificial Seawater</td>
<td>DSW5</td>
<td>DSW10</td>
<td>DSW25</td>
</tr>
</tbody>
</table>

Synthetic Fresh Water Standards - Water Hardness as CaCO$_3$

<table>
<thead>
<tr>
<th>Description</th>
<th>Product No. 5L</th>
<th>Product No. 25L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic Fresh Water Standard 10-13ppm</td>
<td>HSV51</td>
<td>HSV55</td>
</tr>
<tr>
<td>Synthetic Fresh Water Standard 40-48ppm</td>
<td>H5S1</td>
<td>H5S5</td>
</tr>
<tr>
<td>Synthetic Fresh Water Standard 80-100ppm</td>
<td>HSMH51</td>
<td>HSMH5</td>
</tr>
<tr>
<td>Synthetic Fresh Water Standard 160-180ppm</td>
<td>HSH51</td>
<td>HSH5</td>
</tr>
</tbody>
</table>
Cleaning Solutions

Reagecon offer ready-to-use cleaning solutions, which eliminate the need for diluting solutions in-house, together with the associated risks of handling strong oxidizers. These products save you time and money.

Summary of Features & Benefits:

- Pre-prepared and ready to use
- Certificates of Analysis available online
- Safety Data Sheets available online

Sodium Hypochlorite Solutions

Recommended for general disinfection of laboratory equipment and apparatus, including benches, sinks, floors and contact surfaces (not stainless steel)

- Sanitization of production areas and processing equipment
- As effective as Chlorine Gas
- Easily Stored and transported

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH03WW1</td>
<td>Sodium Hypochlorite 0.3% w/v available Chlorine</td>
<td>1L</td>
</tr>
<tr>
<td>SH05WV05</td>
<td>Sodium Hypochlorite 0.5% w/v</td>
<td>500ml</td>
</tr>
<tr>
<td>SH05WV5</td>
<td>Sodium Hypochlorite 0.5% w/v</td>
<td>5L</td>
</tr>
<tr>
<td>SH2WW025</td>
<td>Sodium Hypochlorite 2% w/v available Chlorine</td>
<td>250ml</td>
</tr>
<tr>
<td>SH3WW1</td>
<td>Sodium Hypochlorite 3% available Chlorine</td>
<td>1L</td>
</tr>
<tr>
<td>SH3WW25</td>
<td>Sodium hypochlorite 3% available Chlorine</td>
<td>25L</td>
</tr>
<tr>
<td>SH5WV05</td>
<td>Sodium Hypochlorite 5% w/v Spray</td>
<td>500ml</td>
</tr>
<tr>
<td>SH5WV1</td>
<td>Sodium Hypochlorite 5% w/v</td>
<td>1L</td>
</tr>
<tr>
<td>SH5WV5</td>
<td>Sodium Hypochlorite 5% w/v</td>
<td>5L</td>
</tr>
<tr>
<td>SH5WV25</td>
<td>Sodium Hypochlorite 5% w/v</td>
<td>25L</td>
</tr>
<tr>
<td>SH57WW1</td>
<td>Sodium Hypochlorite 5-7% available Chlorine</td>
<td>1L</td>
</tr>
<tr>
<td>SH155</td>
<td>Sodium Hypochlorite 15%</td>
<td>5L</td>
</tr>
<tr>
<td>SH25002</td>
<td>Sodium Hypochlorite 250ppm</td>
<td>200ml</td>
</tr>
</tbody>
</table>
### Isopropanol Cleaning Solutions

Ideal for cleaning and decontaminating lab surfaces, production areas and processing equipment

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP375</td>
<td>IPA 37% / 63% H₂O Solution</td>
<td>5L</td>
</tr>
<tr>
<td>IP70WV005</td>
<td>IPA 70% IPA/30% H₂O Solution</td>
<td>5ml</td>
</tr>
<tr>
<td>IP70WV05</td>
<td>IPA 70% w/v/ 30% H₂O - Trigger Spray 500ml bottle</td>
<td>500ml</td>
</tr>
<tr>
<td>IP70WV1</td>
<td>IPA 70% IPA/30% H₂O Solution - Trigger Spray 1L bottle</td>
<td>1L</td>
</tr>
<tr>
<td>IP70WV5</td>
<td>IPA 70% IPA/30% H₂O Solution</td>
<td>5L</td>
</tr>
<tr>
<td>IP70WV10</td>
<td>IPA 70% IPA/30% H₂O Solution</td>
<td>10L</td>
</tr>
<tr>
<td>IP70WV25</td>
<td>IPA 70% IPA/30% H₂O Solution</td>
<td>25L</td>
</tr>
</tbody>
</table>
Traditionally laboratories have used Proficiency Schemes to provide evidence of their competence. Now with tightening audit requirements auditors from compliance and accreditation bodies are increasingly asking for evidence that each analyst in a laboratory is competent to carry out individual analytical tests. Proficiency Schemes are not a cost effective way of meeting this requirement and method witnessing or working with known samples are of limited value.

Reagecon now provides a new approach to proving analyst competency for a range of common laboratory tests. We will provide a set of unknown samples (detailed below) with password protected, online access to our ISO 17025 accredited test results of the samples. This allows Laboratory Managers to provide their analysts with “blind” samples and to cost effectively assess the competency of each individual analyst on a specific test. The assurance provided by the use of blind samples and independent ISO 17025 accredited testing in turn allows the Laboratory Manager to meet all external auditors’ “proof of competency” requirements.

The unknown samples in the Reagecon range are prepared gravimetrically on a weight/weight basis from high purity raw materials. Both solute and solvent are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025.

### Summary of Features & Benefits:

<table>
<thead>
<tr>
<th>Commercial Benefits</th>
<th>Technical Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Proof of competence for individual analysts</td>
<td>• Uncertainty of measurement clearly defined</td>
</tr>
<tr>
<td>• Extensive range of test materials available</td>
<td>• NIST Traceable where applicable</td>
</tr>
<tr>
<td>• More cost effective than Laboratory based Proficiency Schemes</td>
<td>• Consistency of product – Independent, Traceable, Certified</td>
</tr>
<tr>
<td>• Enhanced audit compliance</td>
<td>• Certificates of Analysis and Safety Data Sheets available online</td>
</tr>
<tr>
<td>• Ready to Use</td>
<td></td>
</tr>
</tbody>
</table>

---

**Analyst Qualification Sets**

---

**Commercial Benefits**

- Proof of competence for individual analysts
- Extensive range of test materials available
- More cost effective than Laboratory based Proficiency Schemes
- Enhanced audit compliance
- Ready to Use

**Technical Benefits**

- Uncertainty of measurement clearly defined
- NIST Traceable where applicable
- Consistency of product – Independent, Traceable, Certified
- Certificates of Analysis and Safety Data Sheets available online
## Test Materials (choose any six to make a set)

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Concentration</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQSPH001</td>
<td>Low Range pH @ 20°C</td>
<td>pH range 1 to 5</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSPH002</td>
<td>Medium Range pH @ 20°C</td>
<td>pH range 5.1 to 8</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSPH003</td>
<td>High Range pH @ 20°C</td>
<td>pH range 8.1 to 11</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSPH004</td>
<td>Low Range pH @ 25°C</td>
<td>pH range 1 to 5</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSPH005</td>
<td>Medium Range pH @ 25°C</td>
<td>pH range 5.1 to 8</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSPH006</td>
<td>High Range pH @ 25°C</td>
<td>pH range 8.1 to 11</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSCL001</td>
<td>Chloride Content Low</td>
<td>Chloride Range 0.01M to 0.49M</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSCL002</td>
<td>Chloride Content Medium</td>
<td>Chloride Range 0.5M to 1.9M</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSCL003</td>
<td>Chloride Content High</td>
<td>Chloride Range 2.0M to 4.0M</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSA001</td>
<td>Acid Content Low</td>
<td>Acid Range 0.025M to 0.5M</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSA002</td>
<td>Acid Content Medium</td>
<td>Acid Range 1.0M to 2.9M</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSA003</td>
<td>Acid Content High</td>
<td>Acid Range 3.0M to 10M</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSB001</td>
<td>Base Content Low</td>
<td>Base Range 0.05M to 0.99M</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSB002</td>
<td>Base Content Medium</td>
<td>Base Range 1.0M to 3.0M</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSB003</td>
<td>Base Content High</td>
<td>Base Range 3.0M to 10M</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSCH001</td>
<td>Conductivity Ultra Low</td>
<td>Conductivity Range 1.3μS/cm to 50μS/cm</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSCH002</td>
<td>Conductivity Low</td>
<td>Conductivity Range 80μS/cm to 1,000μS/cm</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSCH003</td>
<td>Conductivity Medium</td>
<td>Conductivity Range 1,100μS/cm to 10,000μS/cm</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSCH004</td>
<td>Conductivity High</td>
<td>Conductivity Range 100,000μS/cm to 500,000μS/cm</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSCH005</td>
<td>Density @ 20°C Low</td>
<td>Density Range 0.7g/ml to 0.95g/ml</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSCH006</td>
<td>Density @ 20°C High</td>
<td>Density Range 1.1g/ml to 2.8g/ml</td>
<td>250ml</td>
</tr>
<tr>
<td>AQSBRIX001</td>
<td>Brix Low</td>
<td>Sucrose (Brix) Range 5% to 19%</td>
<td>15ml</td>
</tr>
<tr>
<td>AQSBRIX002</td>
<td>Brix Medium</td>
<td>Sucrose (Brix) Range 20% to 34%</td>
<td>15ml</td>
</tr>
<tr>
<td>AQSBRIX003</td>
<td>Brix High</td>
<td>Sucrose (Brix) Range 35% to 60%</td>
<td>15ml</td>
</tr>
<tr>
<td>AQSOSM001</td>
<td>Osmolality Low</td>
<td>Osmolality Range 50mOsm/kg to 350mOsm/kg</td>
<td>5ml</td>
</tr>
<tr>
<td>AQSOSM002</td>
<td>Osmolality Medium</td>
<td>Osmolality Range 351mOsm/kg to 999mOsm/kg</td>
<td>5ml</td>
</tr>
<tr>
<td>AQSOSM003</td>
<td>Osmolality High</td>
<td>Osmolality Range 1,000mOsm/kg to 3,000mOsm/kg</td>
<td>5ml</td>
</tr>
<tr>
<td>AQSSTOC001</td>
<td>TOC Ultra Low</td>
<td>TOC Range 0.5ppm to 10ppm</td>
<td>35ml</td>
</tr>
<tr>
<td>AQSSTOC002</td>
<td>TOC Low</td>
<td>TOC Range 11ppm to 100ppm</td>
<td>35ml</td>
</tr>
<tr>
<td>AQSSTOC003</td>
<td>TOC Medium</td>
<td>TOC Range 101ppm to 500ppm</td>
<td>35ml</td>
</tr>
<tr>
<td>AQSMP001</td>
<td>Melting Point</td>
<td>Melting point Range 40°C to 240°C</td>
<td>1g</td>
</tr>
<tr>
<td>AQSICP001</td>
<td>ICP - Multi-Element (7 Elements)</td>
<td>Concentration Range 1ppm to 1000ppm</td>
<td>100ml</td>
</tr>
<tr>
<td>AQSICP002</td>
<td>ICP - Multi-Element (19 Elements)</td>
<td>Concentration Range 1ppm to 1000ppm</td>
<td>100ml</td>
</tr>
</tbody>
</table>