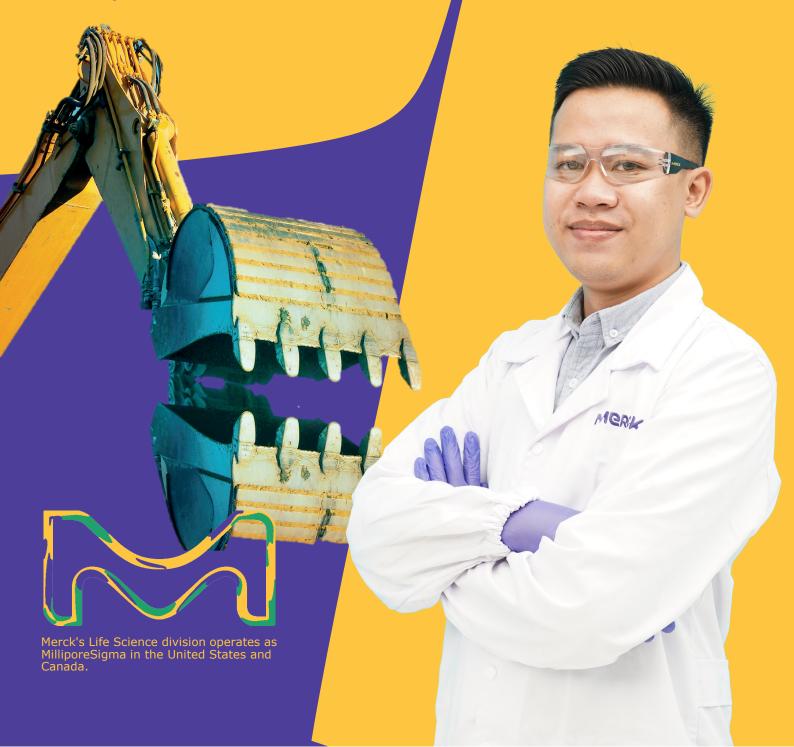


EMpower Mining and Service labs

from exploration to daily lab routine





Merck offers a broad spectrum of proven tools and technologies dedicated to helping our customers succeed in the research, development and production of biotechnology and drugs, as well as in mining and service laboratory applications.

With over 300,000 products and services, from proven products to novel technological innovations, you can count on us for the same high-quality performance tools, from lab to finished products to manufacturing.

Known for their know-how and solution orientation, many of our employees are senior scientists and engineers. Its proven ability to advise on complex issues and effectively mobilize challenge-solving capabilities are key reasons why Merck products are so often specified in customer protocols and processes.

Let's take a look at the mining process and service lab solutions our experts have selected from Merck's wide range of products. To learn more about our full portfolio, www.sigmaaldrich.id or contact your local Merck partner.

content

Merck for the mining industry and service laboratories	2
Cample proporation	
 Sample preparation High purity reagents for sample preparation Salt/acids/oustics/bases (ACS, ISO, Ph Eur) Solids for XRF Analyte/Matrix Separation Ion 	
Exhange Resins Water Purification SystemsType 1 and 2 water purification systems	6
Instrumental analysis • Elemental analysis by AAS/ICP/IC	
Reference materials	
Spectroscopic buffers and matrix modifiersHigh purity acid titration	
Volumetric solutionsType 1 and 2 water purification systems	14
Process water and wastewater analysis	
 Photometric measurement: Instruments, test kits, standards and solvents 	
 Colorimetric measurement: Instrument, test strips Type 1 water purification systems 	19
Laboratory safety and cleanliness	
Absorbents for spilled liquids. Lab cleaning agents	23
• Absorbents for spilled liquids. Lab cleaning agents	2:

... and much more!

merck for the mining industry and service labs

From exploration to daily routine

Mineral discovery can be an expensive business, so you need the best analytical support for all stages of the process to help you make the best decisions.

From the first soil sample test to grade control drilling, sample preparation, water analysis and laboratory safety, we are at your side to provide the right solutions.

What's inside?

No matter what method you use for your elementary analysis, AAS, ICP, IC or Qualification, you can count on our experience and high quality products. To obtain accurate results in instrumental analysis it is essential to calibrate your equipment regularly with reliable reference materials. With Certipur®, we offer a wide range of certified reference materials (CRM), which have a strict specification and are traceable to primary NIST (US) standards, and/or PTB (Germany).

We analyze our CRM in our accredited calibration laboratories for AAS, ICP, pH and conductivity according to DIN ISO/IEC 17025. In addition, Merck is accredited as a producer of reference material certified according to ISO 34 Guide to our conductivity and ICP standards. For you, this means added value: With Merck, you can really trust and relax.

Security

Safety in the lab is an important issue in all laboratories. We are all experts in what we do, but the pressure of time and complacency in our routine tasks can lead to lapses of concentration and in the worst case, accidents. When we develop products, safety is always a key prerequisite for us in handling, packaging and storage, and finally for your health.

We want to make your life safer and give you practical tools and tips for a smooth day's work.

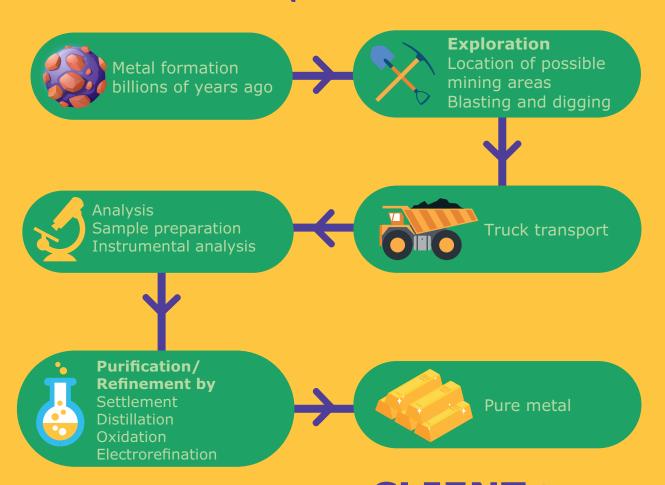
Environment

We only have one planet to live on and want to take responsibility for a sustainable and environmentally friendly lifestyle and work, not only for today, but also for future generations.

That's why it's important to look for efficient methods and the right reagents to provide you with reliable and fast results. This clearly helps you reduce time, waste and ultimately costs. The good thing is that with all these savings you help create a lower burden on the environment. Sounds good, doesn't it?

Laboratories workflow I

metal workflow process



CLIENTCARE **PARTNER COMPLETE** PERSONA

Laboratories workflow II

Sample Preparation



Salts / acids / caustics / bases EMSURE® analysis



Solids for XRF



Grinding



Ion exchange resins



Type 1 and 2 water purification systems

Instrumental Analysis



Reference materials



Spectroscopic buffers and matrix modifiers



High purity acids



Volumetric solutions



Type 1 and 2 water purification systems



BrandEd Flasks[®]

Analysis of process water and wastewater



Test strips



Type 1 and 2 water purification systems



Spectroquant[®] equipment and tests

Laboratory safety and cleanliness



Emplura[®]
Solvents



Absorbent Chemizorb[®]



Extran[®] Cleaning Reagent



High purity acids



Safe Handling of Acids

Dospending systems and safety accessories for acids Access security!



Increase personal safety

Safe extraction systems prevent accidental contact with corrosive chemicals

Optimize work processes

Quick and easy connections allow safe and convenient handling of acids and bases

Enjoy total flexibility

Our interconnectable modular extraction systems do not require other laboratory supplies (e.g. pressure air)

Ensure the reliability of analytical results

Specially tested materials prevent contamination

Save resources

Using larger volumes minimizes chemical waste and packaging waste

Maximum Security

in daily work with acids and bases

Acids and bases are used daily in laboratories for numerous applications. They also play an important role in many chemical production processes.

Most acids and bases are highly corrosive and present serious health risks, such as skin burns or eye injuries. In addition, the need for higher volumes may require the change of bottles to larger containers, increasing the chances of spills and accidents.

The best way to protect yourself from involuntary contact with acids and bases is by using appropriate extraction systems. Our unique solutions allow you to safely and easily dispense harmful chemicals from large containers to other typically smaller containers, minimizing risks.

In addition, before handling hazardous liquids, you should consult the product label and Safety Data Sheet (SDS) to determine your hazard class.

Always use the appropriate personal protective equipment as recommended in the SDS.



High purity reagents for sample preparation

Salts/acids/caustics/bases for EMSURE® analysis

Premium packaging not only protects chemicals, but also the lab staff who use them. EMSURE® products meet international standards specifications that are quality reference in chemicals such as ACS, ISO and Ph Eur.

That's why we've developed several innovative packaging concepts that precisely adapt to the contents.

Tested for up to 70 parameters, EMSURE® products offer the best and most extensive specifications worldwide!

This, combined with unsweet impurity levels, gives you greater control over your analysis and helps you avoid incorrect analytical results, especially when developing new applications.

Salts



EMSURE® salts for analytical use are manufactured under strictly controlled conditions at Merck's facilities in Darmstadt, Germany. The key feature of these salts is their extraordinary analytical purity. The product range contains a wide assortment of inorganic salts for use in qualitative and quantitative analyses.

Acids

Merck's EMSURE® for analysis acids offer the highest possible quality, the highest safety and the most optimized packaging. Our products undergo strict quality controls using the most sensitive analytical instruments and methods. That's why you can rely on Merck acids for analysis for a multitude of applications.



Caustics and bases

Our EMSURE® alkalis and caustic bases premium products are produced using specially selected raw materials. The product range includes sodium and potassium hydroxide granules and corresponding solutions, as well as ammonia solutions at various concentrations and quality grades. Please find the right caustic and base for your specific use.

Here are some of our highlights:

- 2. Robust EP-coated Safebreak bottles for acids
- 3. Packaging suitable for increased demand, e.g. 25 I

High Purity Salts

Salts Suprapur® for sample preparation in instrumental analysis. Be sure to prepare your samples with the highest purity!

For instrumental analysis we offer high purity of inorganic salts for sample preparation. High purity salts are produced under strict conditions in a clean room area. Sophisticated production and crystallization ensure the purity and batch-to-batch consistency of our products.

Quality management is carried out in accordance with DIN EN ISO 9001. Production and quality control are carried out in Darmstadt following modern and sophisticated methods. This ensures the high purity of the salt. Salt purity is 99.99% or higher up to 99.9999%. For products the Certificate of Analysis (CoA) gives an extensive profile of impurities.

CoA is available on the Internet: www.sigmaaldrich.id



Advantages:

- 1. Maximum purity of salts
- 2. Wide profile of impurities in the Certificate of Analysis
- 3. High batch-to-batch consistency

Solids for XRF Flows for XRF

Spectromelt[®] materials for flow digestion or powder tablet pressing are aids perfect for your X-ray fluorescence analysis. The purity of Spectromelt[®] borates provides the necessary degree of precision and our grinding aid materials have been specially developed for automated sample preparation.

Laboratories Workflow sample preparation

Flow

Spectromelt[®]'s A-Series is based on lithium borates, while Spectromelt®'s B-series is based on sodium borate. The fusion with our borates gives a high homogeneity of the sample. Trace impurity interference in the sample can be reduced using a high purity flow. All Spectromelt® fluxes with their extensive specifications are analyzed for inorganic impurities and have a high batch-to-batch consistency.

This reduces the necessary instrument settings and increases measurement accuracy. We offer Spectromelt[®] in powder and melt quality. The molten particles are spherical, have a small particle size distribution and a higher apparent density. The material is easy to handle and has a low ignition loss. Fluxes are also available with an integrated non-wetting agent, such as lithium bromide.





Grinding

The sample tablet is an alternative to fusion. The Spectromelt® C-series is specially developed as an aid for grinding and tableting. In automated dust sample preparation, analysis speed is an important factor. Spectromelt® C10, C15 and C20 are offered in pill form with a weight of 333 mg each. The pills are robust, so automated sample preparation will not be affected. Tablets made with Spectromelt® C10 are very stable for analysis and storage. Spectromelt® C10 has been developed to have distinguishable adhesive properties.

The Spectromelt[®] C20 is compared to the less hygroscopic C10 due to a tight composition. The C20 is preferable for wet weather and its properties make there less waste in the mill. The new Spectromelt® C15 combines the adhesive properties of the C10 and the lower hygroscopicity of the C20. The best homogenization of the sample gives more accurate results in the analysis. The new Spectromelt® C15 MP micro dust can be used to aid grinding and tableting. Hoechst C wax can only be used to assist in the production of tablets.

Lots of hard to filter samples?

Experience the ultra-convenient Samplicity $^{\$}$ G2 filtration system - The better way to use Millex $^{\$}$ Filters

Enjoy the efficient way to use Millex® filters:vacuum filtration



Any process that uses Millex® 33 mm filters can now be performed using the vacuum-driven, timesaving, Samplicity® G2 filtration system – even for small volume (as little as $300~\mu L$) or hard-to-filter samples. If manual filtration is used, hard-to-filter samples can require excessive manual force, greater time per sample, and can yield lower recovery — all of which may reduce laboratory efficiency.

In contrast, the Samplicity® G2 filtration system filters even highly viscous samples in seconds, with minimal manual effort.



we have a filter for that

Millex® syringe filters for small molecule and protein samples



Experience the ultra-convenient Samplicity $^{\! ^{ B}}$ G2 filtration system - The better way to use Millex $^{\! ^{ B}}$ Filters

	Membrane Type		Sol	vent Compatib	ility
			Aqueous	Organic	100% Organic
Small	Hydrophilic PTFE • HPLC certified for low extractables	THE COLOR OF THE C	~	~	
Molecule Workflow	Hydrophobic PTFE • Excellent solvent resistance	0			~
Large Molecule Workflow	Durapore® PVDF • Low protein binding		~		

Membrane	Diameter (mm)	Pore Size (µm)	50 units/pk	100 units/pk	250 units/pk	1000 units/pk	Millex® for Samplicity® G2 (250 funnels + 250 filters/pk)
PTFE Hydrophilic Millipore®	13	0.20	-	SLLGX13NL	-	SLLGX13NK	-
Membrane		0.45	_	SLCRX13NL	-	SLCRX13NK	-
Lowest extractables	33	0.20	SLLG033NS	_	SLLG033NB	SLLG033NK	SAMP2LGNB
Light blue band		0.45	SLCR033NS	_	SLCR033NB	SLCR033NK	SAMP2LCRB
PVDF Durapore® Membrane	13	0.22	_	SLGVX13NL	-	SLGVX13NK	-
Low protein binding		0.45	_	SLHVX13NL	-	SLHVX13NK	-
 Yellow band 	33	0.22	SLGV033NS	_	SLGV033NB	SLGV033NK	SAMP2GVNB
		0.45	SLHV033NS	_	SLHV033NB	SLHV033NK	SAMP2HVNB
PTFE Hydrophobic Fluoropore™	13	0.20	_	SLFGX13NL	_	SLFGX13NK	-
Membrane		0.45	_	SLFHX13NL	-	SLFHX13NK	-
Excellent solvent resistance	33	0.20	SLFG033NS	-	SLFG033NB	SLFG033NK	_
Red band		0.45	SLFH033NS	_	SLFH033NB	SLFH033NK	-

Dispensette® Brand's S Trace Analysis® for safe and accurate dispensing of high purity acids

Bottle-coupled dispensers Dispensette® S Trace Analysis

The new generation! For high purity chemicals!

Innovative ideas, proven technique – Dispensette[®] S Trace Analysis, the new bottle-coupled dispenser. To dose exact volumes of high purity media in trace analysis.

- New dosing cannula with and without purge valve
- New valve system requires no gasket rings
- Volume fixation by snated strip located inside
- Dosage of high purity media such as acids and alkalis in the analysis of traces in volume range from 1 to 10 ml.
- Detachment of metal traces is, as a rule, in the lower range of ppb, and even in the range of ppt, for certain applications
- Hydrofluoric acid dosage with platinum-iridium valve spring without problems.

With OPTIFIX® HF, all liquids that can be handled with OPTIFIX® dispensers and hydrofluoric acid can be safely dosed. As no metal springs are used in the OPTIFIX®, liquid samples will not be contaminated



Analyte/matrix separation Ion exchange resins

All natural and artificial substances that are able to exchange bound ions for an equivalent amount of other ions of a surrounding solution are called ion exchangers. In general, ion exchangers consist of a matrix of crosslinked polymers with a uniform distribution of fixed ion sites throughout the resin structure. These must be balanced by a similar number of ions of the opposite load, the counter-ions, to maintain electrical neutrality. Cation exchangers therefore exchange and enrich only cations, anion exchangers only anions.

In contrast, adsorbent resins have a non-ionic character, but depending on the structure a somewhat polar character and do not estechiometrically adsorb both: anions, cations, as well as unloaded compounds.

In essence, four types of ion exchangers can be distinguished:

- Gel ion exchanger
- Macroporous ion exchangers
- Fluid ion exchangers
- Adsorbent Resins



The bonding force of the equivalent ions increases with the decrease in the diameter of the hydrated ion.

I-ion exchanger

Form: H+, interchange capacity (mval/mL): > 1.7

Amberlite IR-120 ion Exchanger

Form: H+, interchange capacity (mval/mL) > 1.7 Shape: Na+, interchange capacity (mval/mL) > 1.9



Strongly acidic cation exchangers

The bonding force of the equivalent ions increases with the decrease in the diameter of the hydrated ion.

I-ion exchanger

Form: H+, interchange capacity (mval/mL): > 1.7

Amberlite IR-120 ion Exchanger

Form: H+, interchange capacity (mval/mL) > 1.7 Shape: Na+, interchange capacity (mval/mL) > 1.9



Water purification systems Water purification system Type 1 and 2



Milli-Q System® IQ 70XX

Milli-Q[®] IQ 7003/7005/7010/7015 fully integrated water purification system is your ultimate solution for laboratory water by supplying superior type I water and type II water directly from running water.

With Elix® EDI technology, intuitive touch screens, Q-POD® and E-POD dispensers® and mercury-free UV lamps, the system will exceed your most demanding expectations, from increased productivity to reduced environmental impact.

Download Brochures



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Empower Your Lab

Salts / Acids / Caustics / Bases

EMSURE®: Sales/acids/caoustics/bases

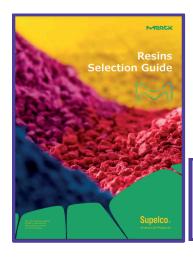
Suprapur® salts



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Ultrapur and Suprapur® Acids and bases brochure



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Resins Selection Guide

Ion exchange resins Amberlite Dowex



Scan Here



Spectromelt brochure

Solids for XRF

Spectromelt[®] A + B (melting borates) Spectromelt® C (micropolysm for grinding and compressing)

Certipur® reference materials for AAS and ICP Reference Materials



Certipur® reference materials for calibration and qualification in instrumental analysis ensure the most reliable results. Our certified reference materials come with a complete Certificate of Analysis.



AAS Standards

Atomic absorption spectroscopy patterns can be traced back to the standard NIST reference material. The content analysis is carried out by the ICP-OES at Merck KGaA, Darmstadt, Germany, laboratory accredited for the mass fraction according to DIN EN ISO / IEC 17025. A batch-specific certificate of analysis can be obtained over the Internet (www.sigmaaldrich.id)



ICP Single Element Standards

The quality control of our single-element ICP standards is carried out by the calibration laboratory accredited according to DIN EN ISO / IEC 17025. They are traceable directly to the primary NIST reference material.

A certificate of analysis is attached to each package. It includes accurate data on content, including uncertainty budget, trace element impurities, composition, traceability, release date and minimum duration of preservation. Our unique ICP element standards are produced in accordance with ISO 34 Guide.



ICP Multi Element Standards

Multi-element calibration standards are traceable to the standard NIST reference material. A certificate of analysis is attached to each package. Includes data on content, composition, traceability, release date, and minimum retention duration.

Merck is a producer of reference materials accredited by the ISO 34 **Guide for single-element ICP** patterns. Therefore, you can have the complete security of achieving the highest reliable quality.

Merck's Certipur[®] high-quality reference materials for AAS and ICP comprise AAS patterns and auxiliaries (including oil-dissolved AAS patterns for non-aqueous matrix analysis), as well as oneand multi-element patterns for ICP. In addition, we provide patterns in the form of Titrisol®.

Merck's Certipur® reference materials for AAS and ICP are ready-to-use, certified and contrastable solutions with NIST's primary standard reference material. Our demanding quality control procedures ensure the highest accuracy: the ICP and ASS Certipur® patterns are analyzed using the ICP-OES and ICP-MS methods and are certified by our own calibration laboratory which has been accredited according to ISO 17025. All relevant information, such as uncertainty and contrastability data with certifications, is documented in an extensive batch-specific Certificate of Analysis.

Elemental analysis by AAS/ICP/IC / XRF



Ionic chromatography

Ion chromatography requires the constant use of calibration solutions. Merck has a wide range of mono and multi-element solutions for this purpose. The latest additions are multi-element solutions. All ion chromatography standards are traceable to standard NIST reference materials.



Spectroscopic buffers and matrix modifiers

Merck also provides matrix modifiers that allow you to control the relevant properties of the sample matrix, thus optimizing analysis conditions, especially for the AAS graphite furnace. Last but not least, our high purity ionization buffers effectively serve to suppress interference during AAS flame analysis.



Spectroscopic buffers and matrix modifiers

Suprapur®/Ultrapur® acids offer the most suitable purity of wet digestion materials. Merck's high purity acids have few impurities throughout the minimum shelf life.

Digestion with acids is often used during sample preparation. Reagents for sample preparation have a significant impact on the measurement result. In modern instrumental trace analysis any impurity can disturb the measurement. Acids with few impurities should be used to minimize interference to the instrument signal. Suprapur® and Ultrapur® high purity acids and bases offer the most suitable purity of wet digestion materials and have low impurities during the minimum shelf life.

Spectromelt® materials for sample preparation for XRF analysis

Merck offers you a wide range of Spectromelt® fluxes and other materials for sample preparation in your X-ray fluorescence analysis (XRF) applications. Our portfolio of XRF sample preparation products includes Spectromelt® fusion borates (Spectromelt® A and B), numerous fusion additives and Spectromelt® tablets pre-prepared for grinding and compression (Spectromelt® C).

Thanks to their exceptionally high purity and batch uniformity, Spectromelt® A and B borates provide highly homogeneous samples, accurate analysis and less need for equipment adjustments. Our Spectromelt® C series of XRF reagents are designed as a grinding and compression assistant and optimized for automated sample preparation when analysis speed is essential.

All Spectromelt® reagents are characterized by extensive specifications; In addition, each batch thoroughly analyses the presence of 22 inorganic impurities in traces, for maximum XRF accuracy.

Elemental analysis by AAS/ICP/IC / XRF



Brand-flasks®

BRAND-appropriate flasks offer a maximum level of accuracy. Strict statistical control ensures the high level of quality. Reinforced flasks are indispensable for preparing solutions and measured solutions. If no other wish is expressed, it.

Volumetric Solutions



Titripur[®] - precision and quality

Like all Merck products, Titripur® volumetric solutions are subject to stringent manufacturing and testing requirements. From raw material selection and packaging to quality control, the highest demands apply to purity and quality. All Titripur® volumetric solutions measured in our DIN EN ISO / IEC 17025 accredited laboratory.



Titrisol® - concentrates for greater flexibility

For users who regularly perform different types of analyses, we also offer most volumetric solutions such as Titrisol® concentrates. Each ampoule contains an exactly defined amount of substance that is normally filled up to a final volume of 1 liter. However, any other concentration can be produced by diluting it accordingly.



Titripur® - ready-to-use, reliable and accurate solutions

Merck offers ready-to-use volumetric solutions for daily laboratory analysis. These can be connected directly to a titler via an adapter.

Volumetric Solutions



Titrette[®]

Titrette® – the first bottle-coupled burette whose values are within the Class A error limits for glass burettes. With the Titrette® bottle-coupled burette you can perform your ti-assessments quickly and reliably with maximum precision, even in small spaces and regardless of electrical connections, whether in the lab, in production or on site.

Titripac®

Titripac[®] is a smart and safe Packaging system from Merck for our ready-to-use volumetric, buffer and aqueous solutions. Available in 10- and 4-litre pack sizes, Titripac[®] offers economic and ecological advantages, and makes your pH assessments and determinations more comfortable and reliable.

An hermetically sealed packaging system prevents contamination and aging of your solutions and helps optimize your work processes. Titripac® is therefore the perfect solution for customers with high requirements and strict quality control systems.

Advantages Titripac®

No pollution: hermetically sealed container

Easy to use: built-in faucet. Direct connection to a valuer is possible

Saving time and money: no unnecessary valuations. No contaminated waste

Ecological disposal: less waste, as cardboard and internal coating can be disposed of

separately

Order your sample for FREE

Scan Here to Request your Sample Trial





Download Brochures





Ultrapur and Suprapur® Acids and bases

Complementary

- Suprapur Acids®
- Ultrapure acids®



Scan Here

Volumetric Solutions and Standards for Titration



Certipur Ready-to-Use Buffer Solutions

AAS

- Certipur® standard AAS
- Titrisol® standards
- Certipur[®] standard AAS dissolved in oils

IC

Certipur® IC standards

ICP

- Certipur® standard single-element ICP
- Certipur® ICP multi-element standards

process water and wastewater analysis

Colorimetric Measurement

Instrument and Test Strips

Spectroquant® Move 100. The mobile colorimeter



How mobile is your lab? The Spectroquant® mobile colorimeter Move 100

Need to make quick decisions during on-site analysis or process control? Do you have to act quickly to prevent deterioration or contamination of your sample, for example during chlorine measurements? Merck offers the optimal solution: Bring your lab to the sample with the Move 100 Spectroquant[®] colorimeter and enjoy fast and reliable results on the spot.



Accurate analysis - anywhere

The Spectroquant[®] Move 100 colorimeter is all you need for fast and reliable water analysis when working on site. That's because this small portable colorimeter covers all the important parameters of drinking and waste water analysis in a single instrument. With a selection of over 100 pre-programmed and 35 user-defined methods, you'll always have the most appropriate test for accurate results - on-site. This means that there are no delays, no risk of sample deterioration, no need for additional instruments.

Always working

The Spectroquant® Move 100 colorimeter is specially designed to withstand the demands of on-site water analysis. The housing is easy to operate according to IP 68 rating. The design of this easy-to-use colorimeter also excludes any moving parts, thus adding to the robustness of the instrument.

Safe answers

Developed for use with Merck's high-quality Spectroquant® test kits, the Spectroquant® Move 100 colorimeter ensures fast and reliable results. Thanks to our enhanced quality certificate documentation for test kits, and the Spectroquant® Verification Standard, this comprehensive package greatly simplifies analytical quality assurance (AOA).



pH test strips and papers

With MColorpHast[™] no instruments or sample preparation are needed. PH testing delivers bright, color-coded results with ease and speed. More importantly, they are suitable for all types of media in environmental analysis and industrial process controls. Even highly cloudy liquids don't pose problems. Our special transparent test strips ensure clear and reliable measurements, without filtration or clarification. And not only the strips are incredibly convenient, but also the packaging.

Our SafetyEdge box easily dispenses strips when you need them, but prevents them from falling off when you don't need them.

process water and wastewater analysis



MColorpHast™ - pH indicator strips without bleeding

Special indicator dyes are covalently bonded to reactive papers. This prevents the indicator from bleeding out, and allows the strips to be left in the measuring medium indefinitely - without contaminating the sample.

Test strips



High-tech and highly portable, MQuant™ test strips are designed for semi-quantitative determination of ions and compounds – wherever you go. These versatile strips can be used in concentration ranges as low as 1 or 10 mg/l, up to the g/l range. MQuant™ strips allow you to quickly review the contents of your sample.

This saves you considerable time and costs during analysis, quality controls, and controls during the process. Thanks to pet film support material and low reagent content, test strips are also easy to dispose of.

Spectroquant® test kits for boilers and cooling water

All industries operating with boiler and cooling water systems - from power plants, technical and chemical corporations to food and beverage companies - need to regularly analyze water to analyze a number of parameters. This is imperative as it prevents corrosion and malfunction.

Spectroquant® total hardness bucket kits, Spectroquant® residual hardness bucket kits, Spectroquant® oxygen bucket kits, Spectroquant[®] iron reagent kits, Spectroquant[®] copper bucket kits, Spectroquant[®] sulphite bucket kits, Spectroquant® silicate reagent kits, Spectroquant® phosphate reagent kits.

Water purification systems - Type 1



Milli-Q[®] water purification system Direct

An ultrapure water production system directly from the tap that produces RiOs™ Milli-Q® water

Using the Milli-Q[®] Direct dispenser:

- You'll save time with its volumetric function, which automatically supplies the volume of water you requested.
- You'll effortlessly prepare solutions with the easy-to-use, detachable dispenser. Its design is designed to adapt to the height and shape of all the glass material in the laboratory.

process water and wastewater analysis

Milli-Q[®] IQ 7000 purification system



Compact, ergonomic and intelligent. With its large touch screen for intuitive interaction, the new Q-POD® Ultrapure water dispenser offers all the flexibility you

A simple turn of the new dispensing wheel allows you to dispense water to the flow rate you require, from a precise drop by drop to a total of 2 liters per minute. For greater efficiency, you can also select a dispensing option directly from the Home screen. During dispensing, you can easily check the water quality parameters, always visible on the screen. The system continuously monitors your values, so you can fully rely on the quality of your water.

Milli-Q® HX 7000 High Performance Water Purification System

Milli-Q® HX 7000 high-performance systems are designed to deliver the highest quality purified water for your lab's usual applications and equipment feed.



High-performance Milli-Q® HX 7000 systems offer centralized, connected and sustainable purified water solutions for volume needs of up to 9,000 liters per day, making them the perfect choice for large laboratories or laboratory buildings. Milli-Q® HX 7000 water quality is ideal for the preparation of reagents and buffers, for microbiological media, hydroponics or histology.

It is also the best power supply for all high-performance Milli-Q[®] and Super-Q[®] ultrapure water systems as well as equipment such as glass material washers, clinical analyzers, stability chambers, humidifiers, climate testing equipment, autoclaves or hydrogen generators.

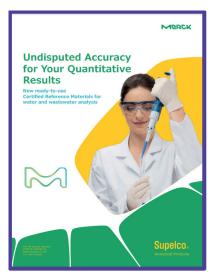


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Your Lab on Your Move. Spectroquant® move 100 handheld colorimeter



Scan Here

Diluted CRM brochure for **Spectroquant Prove**

Absorbents for spilled liquids

Safety, simplicity and sustainability. Merck helps you achieve everything with our wide variety of inorganic reagents. Using natural products whenever possible, our reagents conform to the highest quality standards to make your daily work not only safer but also easier.

Versatile player

When accidents happen, Chemizorb® is there to help. The product range includes specific absorbers for different substances that efficiently absorb aggressive liquids spilled into the laboratory to ensure fast and safe handling.



Chemizorb® powdered

It is insoluble in water and in all other media that are liquid at room temperature. The powder is characterized by extremely high absorption capacity. Due to its large surface area, it is able to absorb two to four times its own weight in aqueous solutions and once to twice its weight in organic solvents and viscous oils.



Chemizorb® granules

Chemizorb® are insoluble in water and in all other media that are liquid granules of Ca ambient temperature. Granules have a slightly lower absorption capacity than dust: due to their rough granular shape, it can only absorb up to 100 percent of its own weight; on the other hand, however, it is much easier to dose.

The granule shape is used in all those places where it is not convenient to use the powder form, for example in rooms with air currents or outdoors. Like dust, granules are suitable for absorbing alkalis, acids, or also for heating bathing fluids.

Absorbents for spilled liquids

Safety, simplicity and sustainability. Merck helps you achieve everything with our wide variety of inorganic reagents. Using natural products whenever possible, our reagents conform to the highest quality standards to make your daily work not only safer but also easier.

Specialists

Alkali, acid and hydrofluoric acid absorbers contain, in addition to the carrier material itself, water-soluble neutralizers and pH indicators. Mixed pH indicators allow the neutralization process to be followed acid or spilled alkalis. Keep in mind that the neutralization reaction can involve heat and gas generation.

Chemizorb® Alcalis

It is a mixture of powder consisting of a mineral copolymer as an absorbent, an acid salt as a neutralizer and a pH indicator. When it comes into contact with the alkalis, the absorbent becomes blue first. After the neutralization is completed, the blue color becomes paler. Between 100 and 120 g of Chemizorb® OH- are needed to absorb and neutralize 100 ml of alkalis.

Chemizorb® Alcalis



NEW: Improved composition. Now easier to use and with greater absorption capacity.

Powder mixture consisting of a mineral copolymer as an absorbent, an alkaline neutralizer and a pH indicator. Suitable for all acid spills (except hydrofluoric acid) The neutralization process results in the release of CO2. When the acid has been neutralized, the color of the indicator changes from red to yellow. About 100 g of Chemizorb® H+ is needed to absorb and neutralize 100 ml of acid.



Chemizorb® Hydrofluoric Acid

It is a mixture of powder consisting of a synthetic copolymer as an absorbent, calcium salt as a neutralizer and precipitator, and a pH indicator. The neutralization process results in the release of CO2. When hydrofluoric acid has been neutralized, the indicator color changes from red to orange/yellow. About 150 g of Chemizorb® HF is needed to absorb and neutralize 100 ml of hydrofluoric acid.

Laboratory Cleaning Agents

Specialists

Thorough, waste-free cleaning is essential for reliable laboratory processes. No matter what you need to clean or the contaminants you face, Merck has the ideal solutions for your lab and equipment. Discover our consolidated Extran[®] lab cleaners.

Extran® lab cleaners are the perfect solution to clean your lab utensils to Merck's well-known quality standards. Reliable processes in laboratories and product installations are only possible with thorough, waste-free cleaning. Only in this way can it be possible to ensure proper scientific working procedures. Anything that comes into contact with chemicals or biological substances must be free of impurities, both before and after use. Merck's Extran® cleaning agents have met these requirements for over 25 years.



Extran®

Extran® MA types for manual washing are universally used concentrates for the production of water baths that operate reliably and without waste.

The different types of Extran® APs were created in cooperation with major appliance manufacturers especially for use in laboratory washing machines and their suitability was checked on these machines.

> For more information, please visit our website: https://www.sigmaaldrich.id/extran-kini-telah-bersertifikat-halal



EMPLURA®

The cost-effective solution for preparatory laboratory applications and chemical production. For many applications, no maximum purity solvents are needed, but a cost-effective solution with reliable quality and available in large quantities. EMPLURA® is Merck's low-cost alternative solution to high purity qualities.

EMPLURA® solvents are mainly tested for preparatory purposes or for standard production processes. EMPLURA® solvents are an economical alternative for laboratory preparatory work, production and cleaning



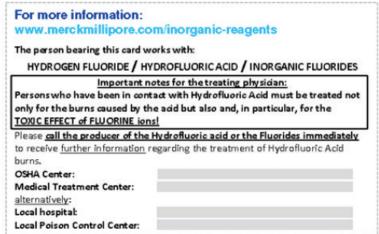
The Hydrofluoric Acid Passport Take it with you

Hydrofluoric acid is one of the most dangerous acids known. Working with hazardous chemicals such as hydrogen fluoride, hydrofluoric acid and inorganic fluorides requires special provisions for the treatment of first aid. Any accident in which these substances intervene can have dramatic consequences for the injured person.

Chemical burns from hydrogen fluoride, hydrofluoric acid, and inorganic fluorides can be life-threatening if the poisonous effects of fluoride ions are not treated.

Not all physicians have the expertise to adequately treat accidental exposure to HF. Therefore, Merck provides an HF Passport the size of a credit card, which establishes the correct medical treatment.

Everyone who works with these materials must carry this HF passport.









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Volumetric Measurement in the Laboratory





Extran[®] Detergent



Extran® Detergent is now Halal Certified

Lab cleaning agents

Extran[®] Emplura® classic solvents



SUPPORT in MERCK trainings:

MERCK, a GLOBAL company, offers you additional support to improve the work skills and capabilities of your lab staff. Below is a list of technical seminars we offer as part of our value-added services for customers with annual supply contracts for reagents, laboratory materials and diverse equipment.

- Laboratory Safety
- Globally Harmonized AMS System
- Storage of Chemical Reagents (laboratory and central warehouse)
- Laboratory Waste Management
- Instrumental Chemistry Basics (Potentiometry, Acid-Base Ratings, Complexometric, Karl Fisher, etc.)
- Quality of Reagents and how it affects in our laboratory.
- Scanning your Lab SMART LABEL



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Merck's Safebreak bottle is available for the following acids:



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Mobile analytics ■

Product Descprition	Catalog No.
Move 100 [®] Spectroquant Colorimeter	1736320001
Spectroquant® Move DC	1736350001
Thermoreath 2 x 12 cut into 2 separately adjustable heating zones, temperature and time for each zone, 7 fixed programs and 8 free selection TR 620 Spectroquant $^{\circ}$	1736350001
Thermoreactor 24 cuts, 8 fixed programs and 8 free selection TR 420 Spectroquant®	1712010001
Arsenic test. Colorimetric method with test strips and reagents 0.005 - 0.010 - 0.025 - 0.05 - 0.10 - 0.25 - 0.50 mg/L As MQuant [®]	1179270001
Arsenic test. Colorimetric method with test strips and reagents 0.02 - 0.05 - 0.1 - 0.2 - 0.5 mg/L As 0.1 - 0.5 - 1.0 - 1.7 - 3.0 mg/L As MQuant [®]	1179170001
Chlorine test. (free chlorine and total chlorine) Photometric method, DPD 0.010 - 6.00 mg/L Cl2 Spectroquant®	1005990001
DQO bucket test for third-party photometers. Photometric method 0 - 150 mg/L Spectroquant®	1187510001
DQO bucket test for third-party photometers. Photometric method 0 - 1500 mg/L Spectroquant®	1187520001
Test in DQO buckets. Photometric method 10 - 150 mg/L Spectroquant®	1145400001
Test in DQO buckets. Photometric method 15 - 300 mg/L Spectroquant®	1148950001
Test in DQO buckets. Photometric method 25 - 1500 mg/L Spectroquant®	1145410001
Test in DQO buckets. Photometric method 50 - 500 mg/L Spectroquant®	1146900001
Test in DQO buckets. Photometric method 500 - 10000 mg/L Spectroquant®	1145550001
Nitrate bucket test. Photometric method 0.5 - 25.0 mg/L NO ₃ -N 2.2 - 110.7 mg/L NO ₃ - Spectroquant®	1145630001
Nitrate bucket test. Photometric method, DMP 1.0 - 50.0 mg/L NO ₃ -N 4 - 221 mg/L NO ₃ - Spectroquant [®]	1147640001
Nitrate bucket test. Photometric method, DMP 23 - 225 mg/L NO ₃ -N 102 - 996 mg/L NO ₃ - Spectroquant [®]	1006140001
Nitrates test. Photometric method, DMP 0.10 - 25.0 mg/l NO ₃ -N 0.4 - 110.7 mg/L NO ₃ - Spectroquant [®]	1097130002
Nitrates test. Reflectometric method with test strips 5 - 225 mg/L NO₃- Reflectoquant [®]	1169710001
Nitrates test. Photometric method, DMP 0.10 - 25.0 mg/l NO ₃ -N 0.4 - 110.7 mg/L NO ₃ - Spectroquant [®]	1097130002
pH indicator strips pH 0 - 14 Universal indicator, do not distill pH 0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 MQuant $^{\text{@}}$	1095350001

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Spectroquant® Prove

A versatile team to meet new requirements 17025/BPL, for the pharmaceutical industry, food, beverages and accredited wastewater laboratories, where photometry is one of its main techniques for your reliable results

Features	Prove 300	Prove 600
Wavelength	(UV/Vis) (190-110 nm)	(UV/Vis) (190-1100 nm)
Lamp	flash de Xenón	flash de Xenón
Spectral bandwidth	4 nm	1,8 nm
No.Catalog	1730170001	1730180001

Just Perfect!



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Spectroquant Prove brochure



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Analytical Products

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Laboratory assistants

Product Description	Catalog No.
Xylenol orange, tetrasodic salt indicator to value ACS metals, Reag. Ph Eur	1086770005
Blue bromotimol ACS indicator, Reag. Ph Eur	1030260005
Phenolphthalin ACS indicator, Reag. Ph Eur	1072330025
Ferroin solution (1.10-phenantroline-iron(II) sulfate) 1/40 mol/l redox indicator	1091930100
Stones to regulate boiling 2-8 mm	1079130500
Bromocresol purple ACS indicator, Reag. Ph Eur	1030250005
Silicagel with humidity indicator (orange gel), granules 1 - 3 mm	1019691000

Buffer

Product Description	Catalog No.
pH buffer solution 7.00 (20 GRAD C) Certipur®	1094774000
Buffer solution pH 10.00 (20 GRAD C) Certipur®	1094004000
Buffer solution pH 10.00 (20 GRAD C) Certipur®	1094000500
pH buffer solution 7.00 (20 GRAD C) Certipur®	1094770500
pH buffer solution 4.00 (20 GRAD C) Certipur®	1094750500
pH buffer solution 7.00 (20 GRAD C) Certipur®	1094391000
pH buffer solution 4.00 (20 GRAD C) Certipur®	1094754000
Concentrated buffer for 500 mL buffer solution, pH 12.00 +/- 0.05 (20 GRAD C) Titrisol®	1098920001
pH buffer solution 4.00 (20 GRAD C) Certipur®	1094351000
pH buffer solution 10.00 (20 GRAD C) Certipur®	1094381000

Laboratory detergent

Product Description	Catalog No.
Extran® MA 02 liquid, neutral, concentrated	1075532500
	Product Supelco®



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Filtration and accessories required in filtration

Product Description	Catalog No.
Non-binder fiberglass filter, APFC, 47 mm. Pore size 1.2 mm, hydrophilic fiberglass, 47 mm diameter.	APFC04700
Silicone gasket (5-329) Swinnex [®] 47	XX1104707
High-performance pump, 220 V/50 Hz	WP6222050
Silicone tubes, 140 cm, D.I. 3/16 in.	XX7100004

Classic inorganics for QC

Product Description	Catalog No.
Sodium acetate trihydrate for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1062671000
Acetic acid (Glacial) 100% 2, 5 L	1000632511
Amidosulfuric acid for EMSURE® analysis 250 g	1001030250
Citric acid monohydrate for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1002441000
Hydrofluoric acid 40% for EMSURE® analysis ACS,ISO,Reag. Ph Eur	1003381000
Fluorhydronic acid 48% EMSURE® ACS, ISO,Reag. Ph Eur	1003345000
Fluoric acid 48% for EMSURE® analysis ACS,ISO,Reag. Ph Eur	1003341000
Hypophosphorous acid 50% for EMSURE® analysis	1046330500
Nitric acid 65% for Reag EMSURE® analysis Ph Eur, ISO	1004569026
Nitric acid 65% for Reag EMSURE® analysis Ph Eur, ISO	1004562500
Perchloric acid 70-72% for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1005192514
Sulfuric acid 95-97% for EMSURE® analysis ISSO	1007312511

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Classic inorganics for QC

Product Description	Catalog No.
Sulfuric acid 95-97% for EMSURE® analysis ISO	1007312500
Ammonium Acetate for EMSURE® analysis ACS, Reag. Ph Eur	1011161000
Bismuth(III) Alkaline Nitrate for EMSURE® Reag analysis. Ph Eur	1018780100
Anhydrous sodium carbonate for EMSURE® ISO analysis	1063921000
Granulated zinc for analysis, particle size approx. 3-8 mm EMSURE® ISO	1087800500
Trisodic citrate dihydrate for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1064481000
Ammonium chloride for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1011451000
Potassium chloride for EMSURE® analysis	1049361000
Copper in sheets approx. 0.1 mm thick EMSURE®	1027000250
Tin(II) chloride dihydrate for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1078151000
Potassium hydrogen phthalate for Reag EMSURE® analysis Ph Eur	1048740250
Sodium hydroxide granules for EMSURE® analysis	1064981000
Lanthanum(III) EMPLURA® oxide	1122200500
Silver nitrate for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1015120100
Lead(II) trihydrate acetate for EMSURE® analysis ACS,Reag. Ph Eur	1073751000
Lead(II) carbonate for EMSURE® analysis ACS	1073810250
Potassium chlorate for EMSURE® analysis ACS, Reag. Ph Eur	1049440500
Potassium nitrate for EMSURE® analysis ISO, Reag. Q	1050635000
Potassium thiocyanate for EMSURE® analysis 1 kg	1051251000
Sodium cyanide EMPLURA®	1064371000
Sodium fluoride for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1064491000
Sodium peroxodisulfate for EMSURE® analysis	1066091000
Magnesium sulfate heptahydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	1058861000
Zinc sulfate heptahydrate for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1088830500
Ammonium thiocyanate for EMSURE® analysis ACS, IS O, Reag. Ph Eur	1012130500



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Product Supelco[®]

Classic inorganics for QC

Product Description	Catalog No.
Pentahydrate sodium thiosulphate for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1065161000
Pentahydrate sodium thiosulphate for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1065165000
Pentahydrate sodium thiosulphate for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1065160500
Potassium iodide for EMSURE® analysis ISO, Reag. Ph Eur	1050431000
Potassium iodide for EMSURE® analysis ISO, Reag. Ph Eur	1050432500

Reference Patterns/Certificates

Product Description	Catalog No.
Arsenic, standard solution traceable to NIST H $_3$ AsO SRM $_4$ in HNO $_3$ 0.5 mol/L 1000 mg/L As Certipur $^{\circledast}$	1197730100
Arsénico, solución patrón trazable a SRM de NIST H ₃ AsO ₄ en HNO ₃ 0,5 mol/L 1000 mg/L As Certipur [®]	1197730500
CADmium traceable standard solution to NIST SRM Cd(NO $_3$)2 in HNO $_3$ 0.5 mol/L 1000 mg/L Cd Certipur $^{\otimes}$	1197770500
Calcium traceable standard solution to NIST Ca(NO_3)2 SRM in HNO_3 0.5 mol/L 1000 mg/L Ca Certipur [®]	1197780500
Cinc traceable standard solution to NIST Zn(NO ₃)2 SRM in HNO ₃ 0.5 mol/L 1000 mg/L Zn Certipur®	1198060500
Copper traceable standard solution to NIST SRM Cu(NO $_3$)2 in HNO $_3$ 0.5 mol/L 1000 mg/L Cu Certipur 8	1197860500
NIST Sc2O SRM traceable ICP pattern scan $_3$ in HNO $_3$ 7% 1000 mg/L Sc Certipur 8 Scandinavia ICP pattern: Fic	1703490100
Iron traceable standard solution to NIST Fe(NO ₃) ₃ SRM in HNO ₃ 0.5 mol/L 1000 mg/L Fe Certipur®	1197810500
ICP multi-element standard solution IV (23 elements in diluted nitric acid) 1000 mg/L: Ag, Al, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Sr, Tl, Zn Certipur®	1113550100
ICP multi-element standard solution VIII (24 elements in diluted nitric acid) 100 mg/L: Al, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, Li, Mg, Mn, Na, Ni, Pb, Se, Sr, Te, Tl, Zn Certipur®	1094920100

Supelco Product[®]

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Reference Patterns/Certificates

Product Description	Catalog No.
Molybdenum - NIST SRM traceable standard solution (NH4) $_6$ Mo $_7$ O24 in H2O 1000 mg/I Mo Certipur 8	1702270500
Gold - STANDARD solution traceable to NIST H(AuCl $_4$ SRM) in HCl 2 mol/L 1000 mg/L Au Certipur $_8$	1702160500
Silver, traceable standard solution to NIST AgNO SRM3 in HNO3 0.5 mol/L 1000 mg/L Ag Certipur $^{\circ}$	1197970500
Platinum cobalt color standard solution (HAZEN 500) in accordance with DIN EN SO 7887 and ASTM D1209 Pt 500 mg/L Certipur®	1002460250
Lead - NIST Pb(NO ₃)2 traceable SRM standard solution in HNO ₃ 0.5 mol/L 1000 mg/L Pb Certipur®	1197760500
Selenium traceable standard solution to NIST SeO2 SRM in HNO $_3$ 0.5 mol/L 1000 mg/L Certipur $_8$	1197960500
Sodium carbonate (Sodium carbonate volumetric standard, secondary reference material for acidimetry, traceable to NIST SRM Certipur® CAS Number 497-19-8, EC Number 207-838-8.)	1024050080
Certified buffer solution, secondary reference pattern Potassium tetraoxalate dihydrate, traceable directly to primary NIST/PTB pH(S) SRM s 1.679 (25oC) Certipur®	1072040105
TITANIUM ICP pattern traceable to NIST SRM (NH4)2TiF6 in H2O 1000 mg/L Ti Certipur®	1703630100
Vanadium ICP pattern traceable to NIST NH ₄ VO SRM ₃ in HNO ₃ 2-3% 1000 mg/L V Certipur $^{\tiny \odot}$	1703660100
Wolframio standard ICP traceable to NIST SRM (NH4)2WO4 in H2O 1000 mg/L W Certipur®	1703640100

Reagents used in titration

Product Description	Catalog No.
Cerium(IV) sulfate in solution c(Ce(SO ₄)2 * 4 H2O) s 0.1 mol/l (0.1 N) Titripur $^{\circ}$ Reag. Ph Eu	1090921000
Silver nitrate in solution $c(AgNO_3)$ s 0.1 mol/l (0.1 N) Titripur® Reag. Ph Eur, Reag. Usp	1090814000
Sodium hydroxide solution for 1000 mL, c(NaOH) x 0, 1 mol/L (0, 1 N) Titrisol $^{\circ}$	1099590001
Titriplex® III ACS, ISO, Reag. Ph Eur	1084181000

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Other reactives >

Product Description	Catalog No.
Pyridin-2,6-dicarboxylic acid	8006141000
ACS Reactive Ammonium Thiocyanate, 97.5%	221988-500G
Sodium thiosulphate pentahydrate ReagentPlus®, 99.5%	S8503-2.5KG
Tween® 80 for synthesis. CAS 9005-65-6, pH 5 - 7 (50 g/L, H2O, 20oC).	8221870500

Other reactives

Product Description	Catalog No.
Acetone for EMSURE® analysis ACS, ISO, Reag. Ph Eur	1000142500
Absolute ethanol for EMPARTA® analysis ACS	1070172511

Laboratory-Brand Materials, Equipment and Supplies

Product Description	Catalog No.
Sowing handle ps c/needle des.10ol, pqx1000 (50 BAGS X 20 UND)	BR452210-1000EA
Brand pqx10 magnetic cross bar	BR137638-10EA
Titrette® digital burette bottle-coupled, 50 mL, titre/purge valve, accessories,cert. De confor	BR4760161-1EA
Bureta, topaz glass, ptfE 25 mL CJx2 straight male wrench	BR13536-2EA
Object cover 22X22 mm Pqx2000	BR470055-2000EA
Dispensette® Dispenser S, 2, 5-25 mL	BR4600151-1EA
Dispensette [®] S Organic analog 0, 5-5 mL W.Valve	BR4630131-1EA
Dispensette® S Organic analog 2, 5-25 mL	BR4630151-1EA
Dispensette® S Organic analogue, 1-10 mL	BR4630141-1EA
Dispensette® S Organic analogue, 5-50 mL	BR4630161-1EA
Dispensette® Digital Organic S, 2.5-25 mL	BR4630351-1EA

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Laboratory-Brand Materials, Equipment and Supplies

Product Description	Catalog No.
Dispensette® S Trace Analysis, 1 - 10 mL	BR4640041-1EA
FUNnel PP(De-75mm Branch-10mm) Pqx12	Z637556-12EA
Fiola 50 mL C/Tap PP. Class A. Pq.X 2	Z326747-2EA
Fiola 500 mL C/Tap PP. Class A. Cjx2	Z326801-2EA
Wide Neck Bottle Pe-Ld 1000 mL	Z329991-1PAK
500 mL bottle, Pe-Ld, Pq.X 50	Z330116-1PAK
Washing bottle 250 mL (Distilled Water)	Z329738-5EA
Pe-Hd 500mL F/Square Bottle	Z330116-1PAK
Silicone plunger grease	Z758051-1EA
Clock moon D-100 mm. Pq.X 10	BR150050-10EA
Graduated flask 1000 mL Unit	BR36182-1EA
1000mL class A BLAUBRAND graduated flask with PP cap	Z326496-1EA
Graduated flask amber class A 500 mL Cjx2	Z326488-2EA
Class A 100mL Cjx2 Graduated Flask Eternal	Z326763-2EA
Class A 200mL Cjx2 Graduated Flask Eternal	Z326771-2EA
Class A 250mL Cjx2 Brand graduated flask	Z326933-2EA
Classy graduated flask 1000mL Cjx1 Eternal	Z326828-1EA
Pmp(Tpx) 500mL graduated flask, Class A	BR36180-1EA
Pmp(Tpx) Class A graduated flask, 100 mL	BR36176-1EA
Polymethylpentane graduated flask 50 mL	BR36174-1EA
Graduated flask, Class A, 10 mL Paq.X 2	Z326720-2EA
Graduated flask, Class A, 100 mL Paq.X 2	Z326909-2EA
Graduated flask, Class A, 250 mL Paq.X 2	Z326798-2EA



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Laboratory-Brand Materials, Equipment and Supplies

Product Description	Catalog No.
Pipette graduated 50 mL class A Certif. Pq.X 6	Z325171-6EA
Volumetric pipette 10 mL forged Class A	Z325147-6EA
Volumetric pipette 20 mL Class A. Pq.X 6	Z325155-6EA
Pipeta volumétrica 25 mL, Clase A. Pq.X 6	Z325163-6EA
Volumetric pipette 5 mL, Class A 1 Capacity. Pq.X 6	Z325139-6EA
Class A volumetric pipette 0.5 mL Cjx12	Z324906-12EA
Class A volumetric pipette 1 mL Cjx12	Z325112-12EA
Class A volumetric pipette 6 mL Cjx6	Z324973-6EA
Pipetter accu-jet® Pro 230V Pqx1	Z333980-1EA
Class A 100 mL Cjx2 graduated specimen	Z324477-2EA
Graduated specimen class A 1000 mL Cjx1	Z324507-1EA
Class A 250 mL Cjx2 graduated specimen	Z324485-2EA
Graduated specimen class A 50 mL Cjx2	Z324469-2EA
PMP class A+ 1000 mL PQ graduated specimen. X1	Z327476-1EA
Polymethylpentane class A+ 500 mL Cjx2 Brand autoclavable graduated specimen	Z327433-2EA
Single pipette tips 2-200oL, DNA-free, RNA,non-sterile, IVD. Yellow. BRND732028. Paq.x 1,000	Z740094-10000EA
Take system for Dispensette® III / Organic, PQx1	Z332593-1EA
Transferpettor T/Digital 2.5-10 L Cjx1	Z328359-1EA
Transferpettor T/Digital 20-100 L Cjx1	Z328383-1EA
Flexible dispensing tube with purge valve for Dispensette® 2.5.10 mL	BR708132-1EA
Tubo ensayo graduado c/tapón PP NS 12/21, de vidrio,10 mL, 15 x 165 mm pq x 10 brand	BR114508-10EA

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Laboratory-Brand Materials, Equipment and Supplies

Product Description	Catalog No.
Flexible tube p/Dispensette® 25,50,100 mL with purge valve. Unit. Brand	BR708134-1EA
Output tube p/Dispensette® 25, 50 , 100 mL, pqx1	Z332445-1EA
Vessel 600 mL high shape Duran. Brand with graduation and landfill. Box x 10 units	BR90648-10EA
Teflon cup 250 mL, Brand. Pqx1	Z322695-1EA
Vessel, low shape, PP, 500 mL: 50 ml, grad. Blue. Paq.x 6	BR87616-6EA

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