

Capabilities Catalog

INORGANIC CUSTOM & STOCK CERTIFIED REFERENCE MATERIALS





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QUALITY, CUSTOMS & MORE

Quality

A history of accreditation. For more than 20 years, Inorganic Ventures has been accredited by A2LA to ISO 17034 (formerly ISO Guide 34) & ISO 17025. These are the core standards of the analytical testing community, and Inorganic Ventures continues to lead the way in compliance to these quality standards. This means CRMs that are engineered to be stable, compatible, SI traceable and manufactured and tested under ISO 17034 & ISO 17025 guidelines.



Customs

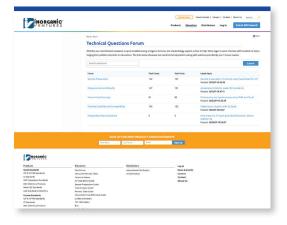
Custom standards are Inorganic Ventures' specialty. Our catalog reveals only a fraction of the inorganic reference materials we can prepare. More than two thirds of our business is devoted entirely to preparing custom standards. As the leading manufacturer of custom inorganic standards, we've produced tens of thousands of unique blends for laboratories worldwide. It's our area of expertise, and perhaps the most prominent way in which we refine your results and redefine your industry.



And More...

On the web. Our technical library has been expanding for over a decade. Topics include ICP operations, sample preparation, trace metals analysis and much more* There you'll discover the best online tool for analytical chemists with our Interactive Periodic Table. It includes chemical compatibilities, preferred lines, major interferences and additional data for 70+ elements. inorganicventures.com/tech-center

Additionally, our stock SDSs and CoAs can be found on our website for current lots as well as many older ones.



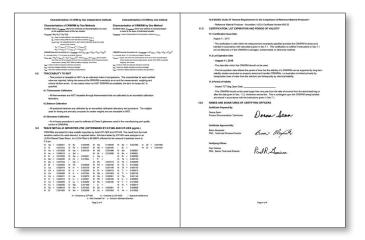
WHY CHOOSE INORGANIC VENTURES?

CERTIFICATE OF ANALYSIS



You'll wonder how you ever got along without such a thorough certificate.

Contact us for a sample.



Certificate of Analysis (CoA)

Nearly every CRM we manufacture includes a highly detailed Certificate of Analysis. As an ISO 17034, A2LA accredited manufacturer, we provide certificates that include extensive data to meet the quality requirements of any laboratory:

- Traceability to specific NIST SRMs and lots
- Certified Values based on two independent methods
- Trace Impurities listed with the actual values
- Uncertainties detailed information reported

ONLINE

All CoA and Safety Data Sheet (SDS) information is now available online, 24/7. Inorganic Ventures is also pleased to announce that all of our products are GHS compliant and our SDSs are available in 13 different languages.

inorganicventures.com/inorganic-standards



Inorganic Ventures Label



TECHNICAL SUPPORT

We're here to help. We don't just manufacture inorganic CRMs, we also provide technical support when it is needed so you can do your job. Because inorganic chemistry is all we do, Inorganic Ventures has a dedicated technical support team that can assist you with hundreds of topics: sample preparation, method development, ICP and ICP-MS measurement issues and much more. You'll be amazed when you talk to a real person with a technical background ready to help you.

Our technical advisors are available to assist you Monday through Friday, 8:00 a.m. to 5:00 p.m. EST.

We can assist you with...

- Sample preparation
- Spectral interferences
- · Chemical compatibilities
- Various ICP & ICP-MS measurement issues



Technical Questions Answered

We've posted a variety of technical questions and answers pertaining to sample preparation, chemical stability and measurement.

inorganicventures.com/tech-center

Phone

- 800.669.6799 (US & Canada)
- +1.540.585.3030 (International)

Email

info@inorganicventures.com

Online

inorganicventures.com/forum

OUR GUARANTEE

Unquestionable integrity.

We believe in our products. And we value our customers. That is why every order leaving our facilities includes our "Declaration of Integrity." This document guarantees your satisfaction. Simply said, if you're dissatisfied with your order for any reason and we cannot work through the problem with you, a full refund will be issued, no questions asked.



TRANSPIRATION CONTROL TECHNOLOGY



The cornerstone of the scientific community is accuracy. That's why Inorganic Ventures has always been committed to producing the industry's most exact Certified Reference Materials.

But our control...and the control of every standard manufacturer...ends shortly after a standard is calibrated and packaged. We are improving the way we deliver our quality standards.



What is transpiration?

Transpiration refers to the passage of water vapor through the walls of a container and/or evaporation from the container opening. Transpiration results in an increase in the concentration of the CRM/RM.

What is the solution?

Transpiration Control Technology extends the shelf-life of the product. Inorganic Ventures uses a specially designed aluminized bag that prevents an increase in concentration of the CRM/RM until the TCT bag is opened.

How it works.

The sealed TCT bag stops the loss of water vapor from the bottle when equilibrium is reached inside the bag.

Has the product changed?

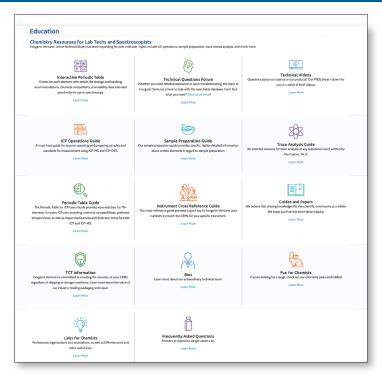
The product has not changed, it is the same high-quality product you have come to depend on from Inorganic Ventures. TCT is an investment we are making to extend shelf life and give you more control at no extra charge. Our products and unconditional guarantee remain the same.

What this means for you.

When you order standards from Inorganic Ventures, your product will be delivered in the TCT bag. This means you will be in control of the expiration date. Upon receiving the product, do not open the TCT bag until you are ready to use. To find out how long the product can be in the TCT bag before it expires, simply check the lot expiration found on the bottom left of the front label. Your product will expire on that date or one year after opening the sealed TCT bag, whichever comes first.

For more information on TCT, visit inorganicventures.com/tct

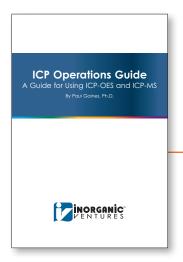
ONLINE TECH CENTER



inorganicventures.com/tech-center

Visit us online to see all of our upgraded features.







Interactive Periodic Table

Discover the best online tool for analytical chemists. Includes chemical compatibilities, preferred lines, major interferences and additional data for 70+ elements.



Guides and Papers

Inorganic Ventures' online technical library has been expanding for more than a decade. Topics include ICP operations, sample preparation, trace metals analysis and much more.



Transpiration Control Technology

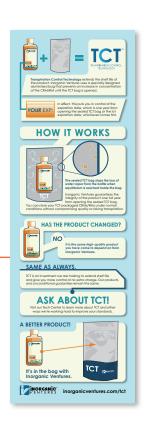
With TCT, concerns about shipping or storage conditions are eliminated, as transpiration is no longer an issue.





Technical Videos

Watch technical videos pertaining to some of the most common questions in our recorded webinars and "Ask a Chemist" video series.





CASE STUDY: PUT OUR PURITY TO THE TEST

CHALLENGE

Inorganic Ventures was contacted by an energy storage manufacturer when concerns arose about acquiring highpurity specialty reagents with custom bulk delivery from a domestic source.

The customer came to us with a request to use our products as components in their elite manufacturing processes. We put our brains together to roll out a distinct custom solution that would support their new endeavors.

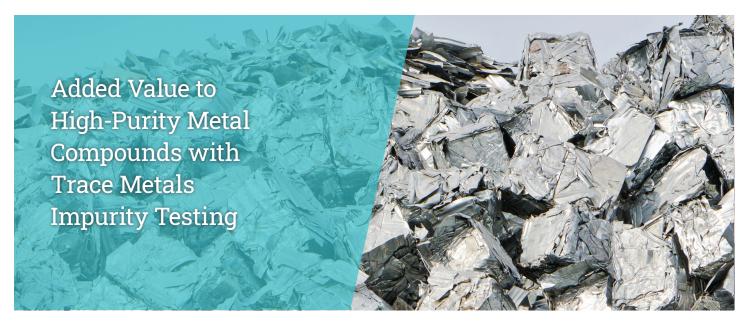
The need for impurities below a certain threshold was vital to the customer's operation and guarantee of a

innovate and develop new chemical mixtures that were stable, easier to manufacture and higher in concentration while simultaneously maintaining the prescribed purity requirements. It also highlighted our ability to adapt and problem-solve when being challenged by large volume requirements (>1000L per month) and sourcing of rare raw materials. Lastly, the case gave valuable insight into a reality where Inorganic Ventures' products, capabilities and expertise are utilized in a variety of different industries beyond trace elemental analysis and validation of instruments in the analytical testing field.

high-quality end product. This project pushed us to

AREAS OF EXPERTISE

- · High-purity technical blending
- Specialized packaging and containers
- Custom reagent mixtures
- High-purity metals and compounds
- · High-purity salt solutions
- High-purity DI water and acid solutions
- · Custom metal solutions
- Custom chemical blending
- Certified filters



CASE STUDY: A NEW PATH FOR IV WITH PURE STARTING MATERIALS

CHALLENGE

A long-term partnership between Inorganic Ventures (IV) and one of our most loyal suppliers sparked ideas about a new endeavor with the highest quality starting materials as the focus. Our collaborating supplier is known for offering ultra-pure inorganic metal compounds and with the addition of Inorganic Ventures' years of ISO-accredited testing expertise, we provide even greater value to their products.

Inorganic Ventures rigorously tests the supplier's starting materials for more than 68 elemental impurities using both ICP-OES and ICP-MS. Our Trace Metallic Impurity (TMI) testing program provides certificates detailing purity information and includes identified trace metals and detection limits. For a multitude of companies, it is important to know which trace metals are present and at

what levels when planning for product development or regulatory compliance. The insight this testing provides is also used to make companies aware of quality control issues or factors for improving their methods and processes.

Along with the added TMI testing, Inorganic Ventures hermetically seals the products using our industry-tested Transpiration Control Technology (TCT) to ensure product integrity and provide confidence and consistency when it comes to shipping and storage. Another benefit to this product transformation is the distribution network used by Inorganic Ventures. Our distribution chain stretches all over the world, making it easier for customers to obtain these metals in compounds common to many manufacturing and analytical processes.

PRODUCTS

Aluminum nitrate hexahydrate	99.999%	CAS Number: 7784-27-2
Calcium carbonate	99.9995+%	CAS Number: 471-34-1
Chromium nitrate nonahydrate	99.999%	CAS Number: 7789-02-8
Iron nitrate nonahydrate	99.9995%	CAS Number: 7782-61-8
Magnesium nitrate hexahydrate	99.999%	CAS Number: 13446-18-9



CASE STUDY: THE RESULTS ARE GROWING. THE MICROBES ARE NOT.

CHALLENGE

When a need arose from customers in highly regulated industries, Inorganic Ventures (IV) took the opportunity to deliver a solution that would ease their pain points and make processes more efficient in the lab. The problem? Companies in biomedical, pharmaceutical, life sciences and nutraceutical fields were experiencing issues with microbial growth in their standards. This problem was so severe that in some cases, product bottles were turning green from mold and algae. These companies must comply with strict government regulations — and "bug" growth in the lab definitely does not fall within the scope of those requirements. IV put their brains together to overcome this issue and develop products that would exceed all other offerings on the market.

To combat microbial growth in the past, pharmaceutical and life science companies had been hitting their CRMs with gamma rays before using them in their laboratory methods. This process is known to be expensive, time-consuming and requires unnecessary handling of the product. Gamma ray treatment was increasing costs and wasting time.

IV'S APPROACH

After extensive research and development, Inorganic Ventures unveiled new and improved pH and conductivity standards that would prevent the growth of microbials altogether and eliminate the need for gamma ray treatment. IV's products are ready to use right out of the bottle! IV was able to solve the problem and meet a need which has allowed for efficiency gains in labs all over the world.

Along with bug growth prevention, the pH line provides many other benefits. In response to varying analytical methods and external requests, specifically from companies involved in protein synthesis, Inorganic Ventures made the jump to certify the pH buffers at multiple temperatures.

Another added benefit to Inorganic Ventures' pH standards, as well as all other product offerings, is the unique packaging. All products are stored in the visionary Transpiration Control Technology. This technology provides up to 5-year shelf life, individual bottle expiration dates, expanded storage temperatures outside of normal lab conditions and eliminates contamination from storage with the goal of putting customers in control of their inventory.

All buffers and conductivity standards produced by Inorganic Ventures are manufactured and tested according to ISO 17034 & ISO 17025 guidelines.

PRODUCTS:



Conductivity Standards

- · 2 µmhos/cm Conductivity at 25°C
- 5 µmhos/cm Conductivity at 25°C
- 10 μmhos/cm Conductivity at 25°C
- 84 µmhos/cm Conductivity at 25°C
- 100 µmhos/cm Conductivity at 25°C
- 147 µmhos/cm Conductivity at 25°C
- 500 µmhos/cm Conductivity at 25°C
- 1,000 µmhos/cm Conductivity at 25°C
- 1,200 µmhos/cm Conductivity at 25°C
- 1,400 µmhos/cm Conductivity at 25°C
- 1,413 µmhos/cm Conductivity at 25°C
- 1,430 µmhos/cm Conductivity at 25°C
- 10,000 µmhos/cm Conductivity at 25°C
- 100,000 µmhos/cm Conductivity at 25°C

pH Standards

- pH 1.68
- pH 10
- pH 2
- pH 10 Blue pH 10.01
- pH3
- pH 11
- pH 4 pH 4 Red
- pH 12
- pH 4.01
- pH 12.45
- pH 5
- pH 12.47
- pH 6
- pH 6.86
- pH 7
- pH 7 Yellow pH8
- pH 9
- pH 9.18

COMMITMENT

At Inorganic Ventures, we want to empower our customers to be leaders, improve efficiencies and meet challenges head on. If your company has specific testing requirements or high-purity specifications, Inorganic Ventures would love to be of service to you. Our team of expert chemists and customer experience representatives looks forward to working with you as a direct partner. Whether this involves process improvement, custom blending, or bulk solution manufacturing, our goal is to offer proven care and support as you refine your results and redefine your industry.









CUSTOM STANDARDS

Refine Your Results. Redefine Your Industry.

Inorganic Ventures' capabilities are not limited to a stock catalog. In fact, manufacturing custom standards is our passion and area of expertise. Let us lead the way as you refine your results and redefine your industry with our precise customizations.



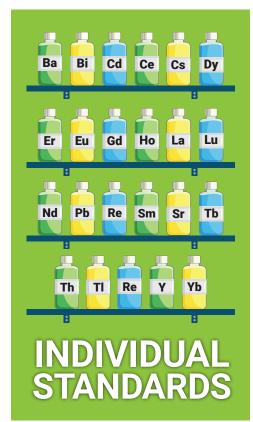
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Custom Standards

- ✓ Made to your exact specifications
- ✓ Save time and money
- ✓ Traceable to NIST SRMs
- ✓ Produced under ISO 9001
- ✓ Produced under ISO 17025
- ✓ Produced under ISO 17034
- ✓ 5-year expiration date with TCT

MAGIC HAPPENS WITH A CUSTOM SOLUTION





ONE CUSTOM SOLUTION

Our custom solutions are manufactured

Mixing individual, single element standards into a working solution requires time, resources and money.

It involves preparation costs like time intensive labor and equipment, administrative costs associated with stocking and measuring re-order points for each solution, and the responsibility of handling all supporting documentation.

Our expert chemists make magic happen in the lab so that you can put these burdens by the wayside!

Each custom blend is calculated, formulated, articulated and regulated.

All of our custom blends are certified, NIST-traceable and have been put through a rigorous stability and method validation process.

Each custom standard is produced under ISO 9001, ISO 17025 and ISO 17034.

Our custom solutions are manufactured according to your exact specifications and ready for use with no preparation required!

In addition, each custom is guaranteed up to a 5-year shelf, thanks to our Transpiration Control Technology (TCT) which puts you in control of the expiration date!

Our Technical Support group is available to facilitate sample preparation and troubleshoot any problems that may arise during testing.

BENEFITS OF ORDERING A CUSTOM

62,000 BLENDS AND COUNTING

Join thousands of laboratories worldwide in purchasing our custom standards. Ditch your single element stocks and let us do the work for you! Not convinced? Check out all the benefits of ordering a custom.

Potential issues building from single element stock products	A TOWN THE STATE OF THE STATE O	BENEFITS OF ORDERING A CUSTOM	G
High Preparation Costs	©3	Save on labor and equipment costs. Ready for immediate use with no prep required.	•
Documentation Responsibilities		All documentation and associated paperwork is handled for you and immediately available if you face an audit.	/
Uncertainty and Instability		Certified, NIST traceable product from experts in elemental compatibility give you peace of mind.	/
Storage and Transpiration Issues	TRANSPIRATION CONTROL TECHNOLOGY	Transpiration Control Technology (TCT) provides up to a 5-year shelf life and allows for flexible storage by increasing allowable temperature range.	/
Contamination		Take advantage of our clean bottles and starting materials.	/







Customers drowning in water testing regulations?

INORGANIC VENTURES HAS A LIFELINE.



TARGET INDUSTRIES/ APPLICATIONS

- · Drinking Water
- Regulatory Monitoring
- Wastewater
- Environmental
- Trade Effluent*

TARGET AUDIENCES

- Chemists
- Method development persons
- · Scientists
- QC managers
- · Analysts/ Lab Technicians

Platinum Cobalt Color Standard Custom Part # IV-57433

PRODUCT OVERVIEW:

- ISO17034 certified Pt-Co color standard via ICP assay
- Often used to determine the level of contaminants present in water and wastewater which provides a general indication of water quality
- Formulated according to ASTM method D1209-05
- Can be used as a reference solution to analytically determine the yellow hue in liquids using a colorimetric scale method (Hazen or Pt-Co color units)
- Prepared from precise starting materials (Potassium chloroplatinate / Cobalt chloride hexahydrate) as required by the ASTM method and traceable to NIST
- Accompanied by a Certificate of Analysis which contains the UV/Vis spectra as additional information
- Sold at a value of 500 Hazen in a 500mL size
- Can be diluted for calibration or calibration verification (normally between 10 and 500 Hazen)
- Contact Inorganic Ventures for information on custom solutions at alternate Hazen values
- Packaged in our TCT bag which offers a 5-year expiration date and eliminates concerns about shipping and storage

^{*}Trade effluent is largely regulated by utilities groups and government bodies. Color is an inexpensive way to quickly gauge water quality and can save customers thousands of dollars.

THE CUSTOMS ORDERING PROCESS

How do I request a custom CRM?

Custom solutions can be requested through our convenient online quotation form. If you are unable to use our website, you may submit custom quotes through email, fax or by phone. All we need from you is a previously quoted IV part number, another manufacturer's part number, or for a brand new solution, the desired analytes, concentrations and matrix requirements.

https://www.inorganicventures.com/quote/instrumentsetup/index

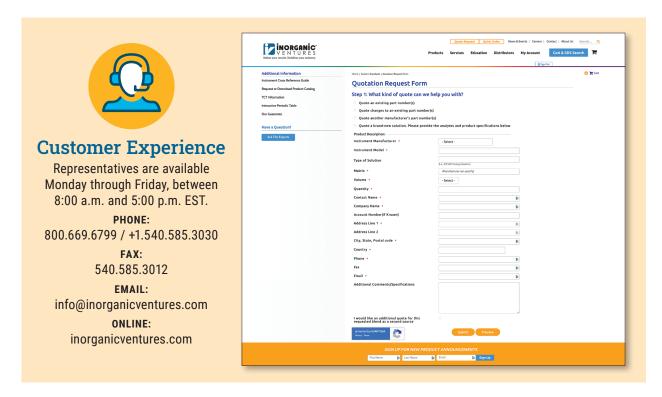
What happens after I submit my request?

Your custom quote is put together by our experienced chemists.

First, they go through our extensive library of more than 63,000 blends that have been developed over the last 37 years. If they don't find a match, they start formulating your exact custom standard. During this process, the blend is reviewed for stability and chemical compatibility. Your quote will be processed within two business days!*

I received the quote and I'm ready to order my custom!

If you like what you see, place your order via phone, fax or email. Your standard will be manufactured, packaged, and shipped within 10 business days. The custom standard is protected by our Transpiration Control Technology (TCT) and retains scientific integrity for up to five years from the date of manufacture.**



- * Quotes with many solutions, complex blends, or unique requirements may take longer to process.
- ** Based on stability data, some blends may receive a shorter lot expiration date.

ICP-OES & ICP-MS

Whether you use ICP or ICP-MS, we offer a wide selection of Certified Reference Materials. At your request, we've expanded our line with new instrument setup standards. And we'll continue to improve our selection based on your feedback.



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Multi-Element Standards	35
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Multi-Element Standards	38
High-Purity Ionization Buffers	52
USP Standards	53
Cannibis Standards	55
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- ✓ Up to five-year shelf life
- ✓ Traceable to NIST SRMs
- ✓ Produced under ISO 9001
- ✓ Produced under ISO 17025
- ✓ Produced under ISO 17034
- ✓ Assayed by validated wet chemical procedures
- ✓ Assayed by validated ICP-OES procedures
- ✓ Trace metallic impurities determined by ICP and ICP-MS

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Certificate of Analysis includes lot specific trace metal impurity analysis.

Need a specific starting material or matrix? Custom 10 ppm single element solutions available upon request. Need a multielement solution? We can do that too!

Aluminum, AI HNO ₃ 125 mL MSAL-10PPM-125ML Antimony, Sb HNO ₃ / Tartaric Acid 125 mL MSSB-10PPM-125ML Arsenic, As HNO ₃ 125 mL MSAS-10PPM-125ML Barium, Ba HNO ₃ 125 mL MSB-10PPM-125ML Beryllium, Be HNO ₃ 125 mL MSBI-10PPM-125ML Bismuth, Bi HNO ₃ 125 mL MSB1-10PPM-125ML Boron, B HNO ₃ 125 mL MSB-10PPM-125ML "Boron, "B HNO ₃ 100 mL* MS10B-10PPM-125ML "Boron, "B HNO ₃ 100 mL* MS10B-10PPM-125ML "Boron, "B HNO ₃ 100 mL* MS10B-10PPM-125ML Cadmium, Cd HNO ₃ 125 mL MSCA-10PPM-125ML Cadmium, Cd HNO ₃ 125 mL MSCA-10PPM-125ML Derium, Ce HNO ₃ 125 mL MSCR-10PPM-125ML Cesium, Cs HNO ₃ 125 mL MSCR(3)-10PPM-125ML Chromium**, Cr** H,O 125 mL MSCR(6)-10PPM-125ML Chromium**, Cr** H,O	ANALYTE	MATRIX	VOLUME	CATALOG #
Arsenic, As	Aluminum, Al	HNO ₃	125 mL	MSAL-10PPM-125ML
	antimony, Sb	HNO ₃ / Tartaric Acid	125 mL	MSSB-10PPM-125ML
New New	Arsenic, As	HNO ₃	125 mL	MSAS-10PPM-125ML
Simuth, Bi	Barium, Ba	HNO ₃	125 mL	MSBA-10PPM-125ML
Soron, B	Beryllium, Be	HNO ₃	125 mL	MSBE-10PPM-125ML
### ### ##############################	ismuth, Bi	HNO ₃	125 mL	MSBI-10PPM-125ML
### ### ##############################	Boron, B	HNO ₃	125 mL	MSB-10PPM-125ML
Cade ium, Cd HNO3 125 mL MSCD-10PPM-125ML Calcium, Ca HNO3 125 mL MSCA-10PPM-125ML Cerium, Ce HNO3 125 mL MSCE-10PPM-125ML Sesium, Cs HNO3 125 mL MSCR(3)-10PPM-125ML Chromium*3, Cr*3 HNO3 125 mL MSCR(3)-10PPM-125ML Chromium*6, Cr*6 H₂O 125 mL MSCR(6)-10PPM-125ML Cobalt, Co HNO3 125 mL MSCO-10PPM-125ML Sermanium, Ge HNO3 125 mL MSCU-10PPM-125ML Sermanium, Ge HO3 / HF 125 mL MSGE-10PPM-125ML Sold, Au HCI 125 mL MSAU-10PPM-125ML Mashinum, Hf HNO3 / HF 125 mL MSHF-10PPM-125ML Molium, Ho HNO3 125 mL MSHP-10PPM-125ML Molium, In HNO3 125 mL MSPB-10PPM-125ML Molium, Li HNO3 125 mL MSPB-10PPM-125ML Magnesium, Mg HNO3 125 mL MSGI-10PPM-125ML Magnesium, Mg HNO3 125 mL M	Boron, ¹ºB	HNO ₃	100 mL*	MS10B-10PPM-100ML
Calcium, Ca	Boron, ¹¹ B	HNO ₃	100 mL*	MS11B-10PPM-100ML
HNO3 125 mL MSCA-10PPM-125ML	Cadmium, Cd	HNO ₃	125 mL	MSCD-10PPM-125ML
Cesium, Cs	Calcium, Ca	HNO ₃		
Chromium*3, Cr*3 HNO3 125 mL MSCR(3)-10PPM-125ML Chromium*5, Cr*6 H20 125 mL MSCR(6)-10PPM-125ML Cobalt, Co HNO3 125 mL MSCU-10PPM-125ML Copper, Cu HNO3 125 mL MSCU-10PPM-125ML Germanium, Ge HNO3 / HF 125 mL MSAU-10PPM-125ML Gold, Au HCI 125 mL MSAU-10PPM-125ML Hafnium, Hf HNO3 / HF 125 mL MSHF-10PPM-125ML Holmium, Ho HNO3 125 mL MSHO-10PPM-125ML Holmium, In HNO3 125 mL MSIN-10PPM-125ML More HNO3 125 mL MSFE-10PPM-125ML Lead, Pb HNO3 125 mL MSPB-10PPM-125ML Lithium, Li HNO3 125 mL MSCI-10PPM-125ML Magnesium, Mg HNO3 125 mL MSGC-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMG-10PPM-125ML MAGN-10PPM-125ML MSMG-10PPM-125ML MAGN-10PPM-125ML MSMG-10PPM-125ML MAGN-10PPM-125ML MSMG-10P	Cerium, Ce	HNO ₃	125 mL	MSCE-10PPM-125ML
Schromium**, Cr** H ₂ O 125 mL MSCR(6)-10PPM-125ML Cobalt, Co HNO3 125 mL MSCO-10PPM-125ML Copper, Cu HNO3 125 mL MSCU-10PPM-125ML Germanium, Ge HNO3 / HF 125 mL MSGE-10PPM-125ML Gold, Au HCI 125 mL MSAU-10PPM-125ML MSAU-10PPM-125ML MSAU-10PPM-125ML MSHF-10PPM-125ML MSHF-10PPM-500ML MSHF-10PPM-125ML MSHF-10PPM-125ML Molimium, Ho HNO3 125 mL MSHO-10PPM-125ML Indium, In HNO3 125 mL MSIN-10PPM-125ML More and Policy HNO3 125 mL MSPB-10PPM-125ML Microscopium, Fe HNO3 125 mL MSCI-10PPM-125ML Microscopium, Mg HNO3 125 mL MSGI-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMG-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMM-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMM-10PPM-125ML	Cesium, Cs	HNO ₃	125 mL	MSCS-10PPM-125ML
Cobalt, Co HNO3 125 mL MSCO-10PPM-125ML Copper, Cu HNO3 125 mL MSCU-10PPM-125ML Germanium, Ge HNO3 / HF 125 mL MSGE-10PPM-125ML Gold, Au HCI 125 mL MSAU-10PPM-125ML MSAU-10PPM-125ML MSAU-10PPM-125ML MSAU-10PPM-125ML MSHF-10PPM-125ML MSHF-10PPM-125ML MSHF-10PPM-125ML Modium, Ho HNO3 125 mL MSHO-10PPM-125ML Mron, Fe HNO3 125 mL MSFE-10PPM-125ML Mead, Pb HNO3 125 mL MSPB-10PPM-125ML Mithium, Li HNO3 125 mL MSCI-10PPM-125ML Magnesium, Mg HNO3 125 mL MSGCI-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMG-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMG-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMN-10PPM-125ML	Chromium ⁺³ , Cr ⁺³	HNO ₃	125 mL	MSCR(3)-10PPM-125ML
Copper, Cu	Chromium+6, Cr+6	H_2^0	125 mL	MSCR(6)-10PPM-125ML
HNO	Cobalt, Co	HNO ₃	125 mL	MSCO-10PPM-125ML
HCI 125 mL	Copper, Cu	HNO ₃	125 mL	MSCU-10PPM-125ML
HCI S00 mL MSAU-10PPM-500ML	Germanium, Ge	HNO ₃ / HF	125 mL	MSGE-10PPM-125ML
HNO3	Gold, Au	HCI		
Indium, In HNO3 125 mL MSIN-10PPM-125ML Indium, In HNO3 125 mL MSFE-10PPM-125ML Indium, Fe HNO3 125 mL MSPB-10PPM-125ML Indium, Li HNO3 125 mL MSLI-10PPM-125ML Indium, Li HNO3 125 mL MSGLI-10PPM-125ML Indium, Li HNO3 125 mL MSMG-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMG-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMN-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMN-10PPM-125ML	lafnium, Hf	HNO ₃ / HF		
ron, Fe	Iolmium, Ho	HNO ₃	125 mL	MSHO-10PPM-125ML
Lithium, Li HNO3 125 mL MSPB-10PPM-125ML Lithium, Li HNO3 125 mL MSLI-10PPM-125ML Lithium, GLi HNO3 125 mL MSGLI-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMG-10PPM-125ML Manageree Mp HNO3 125 mL MSMG-10PPM-500ML	ndium, In	HNO ₃	125 mL	MSIN-10PPM-125ML
Lithium, Li HNO3 125 mL MSLI-10PPM-125ML Lithium, ⁶ Li HNO3 125 mL MSGLI-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMG-10PPM-125ML Magnesium, Mg HNO3 125 mL MSMG-10PPM-500ML Magnesium, Mg HNO3 125 mL MSMN-10PPM-125ML	ron, Fe	HNO ₃	125 mL	MSFE-10PPM-125ML
Lithium, ⁶ Li HNO ₃ 125 mL MS6LI-10PPM-125ML Magnesium, Mg HNO ₃ 125 mL MSMG-10PPM-125ML Magnesium, Mg HNO ₃ 125 mL MSMG-10PPM-500ML Magnesium, Mg HNO ₃ 125 mL MSMN-10PPM-125ML	ead, Pb	HNO ₃	125 mL	MSPB-10PPM-125ML
Magnesium, Mg HNO3 125 mL 500 mL MSMG-10PPM-125ML MSMG-10PPM-500ML Magnese Mp HNO 125 mL MSMN-10PPM-125ML	ithium, Li	HNO ₃	125 mL	MSLI-10PPM-125ML
### ### ### ### ### ### ### ### ### ##	Lithium, ⁶ Li	HNO ₃	125 mL	MS6LI-10PPM-125ML
	Magnesium, Mg	HNO ₃		
	Manganese, Mn	HNO ₃		

^{*}Note: Size is 100 mL not 125 mL.

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ANALYTE	MATRIX	VOLUME	CATALOG #
Mercury, Hg	HCI	125 mL 500 mL	MSHG-10PPM-125ML MSHG-10PPM-500ML
Mercury, Hg	HNO ₃	125 mL 500 mL	MSHGN-10PPM-125ML MSHGN-10PPM-500ML
Molybdenum, Mo	NH ₄ OH	125 mL	MSMO-10PPM-125ML
Nickel, Ni	HNO ₃	125 mL	MSNI-10PPM-125ML
Osmium, Os	HCI	125 mL	MSOS-10PPM-125ML
Phosphorus, P	H ₂ O	125 mL	MSP-10PPM-125ML
Platinum, Pt	HCI	125 mL	MSPT-10PPM-125ML
Potassium, K	HNO ₃	125 mL	MSK-10PPM-125ML
Rhodium, Rh	HCI	125 mL	MSRH-10PPM-125ML
Rhodium, Rh	HNO ₃	125 mL	MSRHN-10PPM-125ML
Scandium, Sc	HNO ₃	125 mL	MSSC-10PPM-125ML
Selenium, Se	HNO ₃	125 mL	MSSE-10PPM-125ML
Silicon, Si	HNO ₃ / HF	125 mL	MSSI-10PPM-125ML
Silver, Ag	HNO ₃	125 mL	MSAG-10PPM-125ML
Sodium, Na	HNO ₃	125 mL 500 mL	MSNA-10PPM-125ML MSNA-10PPM-500ML
Strontium, Sr	HNO ₃	125 mL	MSSR-10PPM-125ML
Sulfur, S	H_2^0	125 mL	MSS-10PPM-125ML
Tellurium, Te	HNO ₃	125 mL	MSTEN-10PPM-125ML
Terbium, Tb	HNO ₃	125 mL	MSTB-10PPM-125ML
Thallium, Tl	HNO ₃	125 mL	MSTL-10PPM-125ML
Thorium, Th	HNO ₃	125 mL	MSTH-10PPM-125ML
Tin, Sn	HNO ₃ / HF	125 mL 500 mL	MSSN-10PPM-125ML MSSN-10PPM-500ML
Titanium, Ti	HNO ₃ / HF	125 mL	MSTI-10PPM-125ML
Tungsten, W	HNO ₃ / HF	125 mL	MSW-10PPM-125ML
Uranium, U	HNO ₃	125 mL 500 mL	MSU-10PPM-125ML MSU-10PPM-500ML
Vanadium, V	HNO ₃	125 mL	MSV-10PPM-125ML
Yttrium, Y	HNO ₃	125 mL	MSY-10PPM-125ML
Zinc, Zn	HNO ₃	125 mL 500 mL	MSZN-10PPM-125ML MSZN-10PPM-500ML

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ANALYTE	MATRIX	VOLUME	CATALOG #
Aluminum, Al	HNO_3	125 mL 500 mL	MSAL-100PPM-125ML MSAL-100PPM-500ML
Antimony, Sb	HNO ₃ / Tartaric Acid	125 mL	MSSB-100PPM-125ML
Arsenic, As	HNO ₃	125 mL	MSAS-100PPM-125ML
Barium, Ba	HNO ₃	125 mL	MSBA-100PPM-125ML
Beryllium, Be	HNO ₃	125 mL	MSBE-100PPM-125ML
Bismuth, Bi	HNO ₃	125 mL	MSBI-100PPM-125ML
Boron, B	HNO ₃	125 mL	MSB-100PPM-125ML
Cadmium, Cd	HNO ₃	125 mL	MSCD-100PPM-125ML
Calcium, Ca	HNO ₃	125 mL 500 mL	MSCA-100PPM-125ML MSCA-100PPM-500ML
Cerium, Ce	HNO ₃	125 mL	MSCE-100PPM-125ML
Cesium, Cs	HNO ₃	125 mL	MSCS-100PPM-125ML
Chromium ⁺³ , Cr ⁺³	HNO ₃	125 mL	MSCR(3)-100PPM-125ML
Chromium ⁺⁶ , Cr ⁺⁶	H_2^0	125 mL	MSCR(6)-100PPM-125ML
Cobalt, Co	HNO ₃	125 mL	MSCO-100PPM-125ML
Copper, Cu	HNO ₃	125 mL	MSCU-100PPM-125ML
Germanium, Ge	HNO ₃ / HF	125 mL	MSGE-100PPM-125ML
Gold, Au	HCI	125 mL 500 mL	MSAU-100PPM-125ML MSAU-100PPM-500ML
Hafnium, Hf	HNO ₃ / HF	125 mL 500 mL	MSHF-100PPM-125ML MSHF-100PPM-500ML
Holmium, Ho	HNO ₃	125 mL	MSH0-100PPM-125ML
Indium, In	HNO ₃	125 mL	MSIN-100PPM-125ML
Iron, Fe	HNO ₃	125 mL 500 mL	MSFE-100PPM-125ML MSFE-100PPM-500ML
Lead, Pb	HNO ₃	125 mL 500 mL	MSPB-100PPM-125ML MSPB-100PPM-500ML
Lithium, Li	HNO ₃	125 mL 500 mL	MSLI-100PPM-125ML MSLI-100PPM-500ML
⁶ Lithium, ⁶ Li	HNO ₃	125 mL	MS6LI-100PPM-125ML
Magnesium, Mg	HNO ₃	125 mL 500 mL	MSMG-100PPM-125ML MSMG-100PPM-500ML
Manganese, Mn	HNO ₃	125 mL	MSMN-100PPM-125ML
Mercury, Hg	HCI	125 mL	MSHG-100PPM-125ML

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ANALYTE	MATRIX	VOLUME	CATALOG #
Mercury, Hg	HNO ₃	125 mL	MSHGN-100PPM-125ML
Molybdenum, Mo	NH ₄ OH	125 mL	MSMO-100PPM-125ML
Nickel, Ni	HNO ₃	125 mL	MSNI-100PPM-125ML
Osmium, Os	HCI	125 mL	MSOS-100PPM-125ML
Phosphorus, P	$H_2^{}$ 0	125 mL 500 mL	MSP-100PPM-125ML MSP-100PPM-500ML
Platinum, Pt	HCI	125 mL	MSPT-100PPM-125ML
Potassium, K	HNO ₃	125 mL 500 mL	MSK-100PPM-125ML MSK-100PPM-500ML
Rhodium, Rh	HCI	125 mL	MSRH-100PPM-125ML
Rhodium, Rh	HNO ₃	125 mL	MSRHN-100PPM-125ML
Scandium, Sc	HNO ₃	125 mL 500 mL	MSSC-100PPM-125ML MSSC-100PPM-500ML
Selenium, Se	HNO ₃	125 mL	MSSE-100PPM-125ML
Silicon, Si	HNO ₃ / HF	125 mL 500 mL	MSSI-100PPM-125ML MSSI-100PPM-500ML
Silver, Ag	HNO ₃	125 mL 500 mL	MSAG-100PPM-125ML MSAG-100PPM-500ML
Sodium, Na	HNO ₃	125 mL 500 mL	MSNA-100PPM-125ML MSNA-100PPM-500ML
Strontium, Sr	$HNO_{_3}$	125 mL	MSSR-100PPM-125ML
Sulfur, S	H_2^0	125 mL	MSS-100PPM-125ML
Tellurium, Te	HNO ₃	125 mL	MSTEN-100PPM-125ML
Terbium, Tb	HNO ₃	125 mL	MSTB-100PPM-125ML
Thallium, Tl	HNO_3	125 mL	MSTL-100PPM-125ML
Thorium, Th	HNO ₃	125 mL	MSTH-100PPM-125ML
Tin, Sn	HNO ₃ / HF	125 mL	MSSN-100PPM-125ML
Titanium, Ti	HNO ₃ / HF	125 mL	MSTI-100PPM-125ML
Tungsten, W	HNO ₃ / HF	125 mL 500 mL	MSW-100PPM-125ML MSW-100PPM-500ML
Uranium, U	HNO ₃	125 mL 500 mL	MSU-100PPM-125ML MSU-100PPM-500ML
Vanadium, V	HNO ₃	125 mL	MSV-100PPM-125ML
Yttrium, Y	HNO ₃	125 mL 500 mL	MSY-100PPM-125ML MSY-100PPM-500ML
Zinc, Zn	HNO ₃	125 mL 500 mL	MSZN-100PPM-125ML MSZN-100PPM-500ML

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1,000 µg/mL

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ANALYTE	MATRIX	VOLUME	CATALOG #
Aluminum, Al	HNO ₃	30 mL 125 mL 500 mL	CGAL1-30ML CGAL1-125ML CGAL1-500ML
Aluminum, Al	HCI	30 mL 125 mL 500 mL	CGALCL1-30ML CGALCL1-125ML CGALCL1-500ML
Antimony, Sb	HNO ₃ / Tartaric Acid	125 mL	CGSB1-125ML
Antimony, Sb	HNO ₃ / HF	125 mL	CGSBF1-125ML
Arsenic, As	HNO ₃	30 mL 125 mL 500 mL	CGAS1-30ML CGAS1-125ML CGAS1-500ML
Arsenic*3, As*3	HCI / NaOH / NaHCO ₃	30 mL 125 mL 500 mL	CGAS(3)1-30ML CGAS(3)1-125ML CGAS(3)1-500ML
Arsenic+5, As+5	H_2O	30 mL 125 mL 500 mL	CGAS(5)1-30ML CGAS(5)1-125ML CGAS(5)1-500ML
Barium, Ba	HNO ₃	30 mL 125 mL 500 mL	CGBA1-30ML CGBA1-125ML CGBA1-500ML
Beryllium, Be	HNO_3	30 mL 125 mL 500 mL	CGBE1-30ML CGBE1-125ML CGBE1-500ML
Bismuth, Bi Commonly used as an Internal Standard for ICP-MS.	HNO ₃	30 mL 125 mL 500 mL	CGBI1-30ML CGBI1-125ML CGBI1-500ML
Boron, B	$\mathrm{NH_4OH}$	30 mL 125 mL 500 mL	CGB1-30ML CGB1-125ML CGB1-500ML
Bromide, Br- Suitable for analyzing Bromide by ICP-OES.	H ₂ 0	30 mL 125 mL 500 mL	CGICBR1-30ML CGICBR1-125ML CGICBR1-500ML
Cadmium, Cd	HNO ₃	30 mL 125 mL 500 mL	CGCD1-30ML CGCD1-125ML CGCD1-500ML
Calcium, Ca	HNO ₃	30 mL 125 mL 500 mL	CGCA1-30ML CGCA1-125ML CGCA1-500ML
Carbon, C	HNO ₃	125 mL 500 mL	CGC1-125ML CGC1-500ML
Carbon, C Suitable for TOC applications per Standard Methods.	H ₂ O	125 mL 500 mL	TOCKHP1-125ML TOCKHP1-500ML
Cerium, Ce	HNO ₃	30 mL 125 mL 500 mL	CGCE1-30ML CGCE1-125ML CGCE1-500ML

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ANALYTE	MATRIX	VOLUME	CATALOG #
Cesium, Cs	HNO ₃	30 mL 125 mL	CGCS1-30ML CGCS1-125ML
Chloride, Cl ⁻ Suitable for analyzing Chloride by ICP-OES.	H ₂ O	125 mL 500 mL	CGICCL1-125ML CGICCL1-500ML
Chromium ⁺³ , Cr ⁺³	HNO ₃	30 mL 125 mL 500 mL	CGCR(3)1-30ML CGCR(3)1-125ML CGCR(3)1-500ML
Chromium ⁺⁶ , Cr ⁺⁶	H ₂ 0	30 mL 125 mL 500 mL	CGCR(6)1-30ML CGCR(6)1-125ML CGCR(6)1-500ML
Cobalt, Co	HNO ₃	30 mL 125 mL 500 mL	CGC01-30ML CGC01-125ML CGC01-500ML
Copper, Cu	HNO ₃	30 mL 125 mL 500 mL	CGCU1-30ML CGCU1-125ML CGCU1-500ML
Dysprosium, Dy	HNO ₃	30 mL 125 mL 500 mL	CGDY1-30ML CGDY1-125ML CGDY1-500ML
Erbium, Er	HNO ₃	30 mL 125 mL 500 mL	CGER1-30ML CGER1-125ML CGER1-500ML
Europium, Eu	HNO_3	30 mL 125 mL 500 mL	CGEU1-30ML CGEU1-125ML CGEU1-500ML
Gadolinium, Gd	HNO ₃	30 mL 125 mL 500 mL	CGGD1-30ML CGGD1-125ML CGGD1-500ML
Gallium, Ga	HNO ₃	30 mL 125 mL 500 mL	CGGA1-30ML CGGA1-125ML CGGA1-500ML
Germanium, Ge	HNO ₃ / HF	30 mL 125 mL 500 mL	CGGE1-30ML CGGE1-125ML CGGE1-500ML
Gold, Au Can also be used to stabalize low-level Hg for ICP-MS analysis.	HCI	30 mL 125 mL 500 mL	CGAU1-30ML CGAU1-125ML CGAU1-500ML
Gold, Au	HNO ₃	30 mL 125 mL 500 mL	CGAUN1-30ML CGAUN1-125ML CGAUN1-500ML
Hafnium, Hf	HNO ₃ / HF	30 mL 125 mL 500 mL	CGHF1-30ML CGHF1-125ML CGHF1-500ML
Holmium, Ho Commonly used as an Internal Standard for ICP-MS.	HNO ₃	30 mL 125 mL 500 mL	CGH01-30ML CGH01-125ML CGH01-500ML

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1,000 µg/mL

ANALYTE	MATRIX	VOLUME	1,000 pg/111
ANALYTE	MATRIX	VOLUME	CATALOG #
Indium, In	LINO	30 mL	CGIN1-30ML
Commonly used as an Internal Standard for ICP-MS.	HNO ₃	125 mL 500 mL	CGIN1-125ML
			CGIN1-500ML
lodide, I-	U O / TEA	30 mL	CGICI1-30ML
Suitable for analyzing lodide by ICP-OES.	H ₂ O / TEA	125 mL	CGICI1-125ML
		500 mL	CGICI1-500ML
luidi lu	HOL	30 mL	CGIR1-30ML
Iridium, Ir	HCI	125 mL	CGIR1-125ML
		500 mL	CGIR1-500ML
Ivan Fa	LINO	30 mL	CGFE1-30ML
Iron, Fe	HNO ₃	125 mL 500 mL	CGFE1-125ML
			CGFE1-500ML
Lonthonum Lo	LINO	30 mL	CGLA1-30ML
Lanthanum, La	HNO ₃	125 mL 500 mL	CGLA1-125ML CGLA1-500ML
Load Dh	LINIC	30 mL 125 mL	CGPB1-30ML
Lead, Pb	HNO ₃	125 mL 500 mL	CGPB1-125ML CGPB1-500ML
lithium li	LINO	30 mL	CGLI1-30ML
Lithium, Li	HNO ₃	125 mL 500 mL	CGLI1-125ML CGLI1-500ML
4.11. 4.			
6Lithium, 6Li Commonly used as an Internal Standard for ICP-MS.	HNO ₃	30 mL 125 mL	CG6LI1-30ML CG6LI1-125ML
outsimony used as an internal standard for ICF-MS.	J		
Lutatium Lu	ПИО	30 mL 125 mL	CGLU1-30ML
Lutetium, Lu	HNO ₃	500 mL	CGLU1-125ML CGLU1-500ML
		30 mL	CGMG1-30ML
Magnesium, Mg	HNO ₃	30 ML 125 mL	CGMG1-30ML CGMG1-125ML
maynesium, my	TINO ₃	500 mL	CGMG1-125ML
		30 mL	
Manganese, Mn	HNO ₃	30 ML 125 mL	CGMN1-30ML CGMN1-125ML
wangaliese, Mili	TINO ₃	500 mL	CGMN1-125ML CGMN1-500ML
		30 mL	CGHG1-30ML
Mercury, Hg	HNO ₃	30 ML 125 mL	CGHG1-30ML CGHG1-125ML
wereary, my	TINO ₃	500 mL	CGHG1-125ML
		30 mL	CGM01-30ML
Molybdenum, Mo	NH,OH	125 mL	CGMO1-30ML CGMO1-125ML
,,	4511	500 mL	CGM01-500ML
		30 mL	CGND1-30ML
Neodymium, Nd	HNO ₃	125 mL	CGND1-35ML
,	3	500 mL	CGND1-500ML
		30 mL	CGNI1-30ML
Nickel, Ni	HNO ₃	125 mL	CGNI1-125ML
•	- 3	500 mL	CGNI1-500ML
		30 mL	CGNB1-30ML
Niobium, Nb	HNO ₃ / HF	125 mL	CGNB1-125ML
•	3	500 mL	CGNB1-500ML

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1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Niobium, Nb High purity, low Tantalum	HNO ₃ / HF	125 mL 500 mL	CGNB2051-125ML CGNB2051-500ML
Osmium, Os	HCI	30 mL 125 mL 500 mL	CGOS1-30ML CGOS1-125ML CGOS1-500ML
Palladium, Pd	HCI	30 mL 125 mL 500 mL	CGPD1-30ML CGPD1-125ML CGPD1-500ML
Palladium, Pd	HNO ₃	30 mL 125 mL 500 mL	CGPDN1-30ML CGPDN1-125ML CGPDN1-500ML
Phosphorus, P	H ₂ O	30 mL 125 mL 500 mL	CGP1-30ML CGP1-125ML CGP1-500ML
Platinum, Pt Contains Chloride	HNO ₃	30 mL 125 mL 500 mL	CGPTN1-30ML CGPTN1-125ML CGPTN1-500ML
Platinum, Pt	HCI	30 mL 125 mL 500 mL	CGPT1-30ML CGPT1-125ML CGPT1-500ML
Platinum, Pt Chloride Free	HNO_3	30 mL 125 mL 500 mL	CGPTNO31-30ML CGPTNO31-125ML CGPTNO31-500ML
Potassium, K	HNO_3	30 mL 125 mL 500 mL	CGK1-30ML CGK1-125ML CGK1-500ML
Praseodymium, Pr	HNO_3	30 mL 125 mL 500 mL	CGPR1-30ML CGPR1-125ML CGPR1-500ML
Rhenium, Re	HNO_3	30 mL 125 mL 500 mL	CGRE1-30ML CGRE1-125ML CGRE1-500ML
Rhodium, Rh Commonly used as an Internal Standard for ICP-MS.	HCI	30 mL 125 mL 500 mL	CGRH1-30ML CGRH1-125ML CGRH1-500ML
Rhodium, Rh Commonly used as an Internal Standard for ICP-MS.	HNO_3	30 mL 125 mL 500 mL	CGRHN1-30ML CGRHN1-125ML CGRHN1-500ML
Rubidium, Rb	HNO ₃	30 mL 125 mL	CGRB1-30ML CGRB1-125ML
Ruthenium, Ru	HCI	30 mL 125 mL 500 mL	CGRU1-30ML CGRU1-125ML CGRU1-500ML
Samarium, Sm	HNO ₃	30 mL 125 mL 500 mL	CGSM1-30ML CGSM1-125ML CGSM1-500ML

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Need a specific starting material or matrix? Custom 10 ppm single element solutions available upon request. Need a multielement solution? We can do that too!

ANALYTE	MATRIX	VOLUME	CATALOG #
Scandium, Sc Commonly used as an Internal Standard for ICP-MS.	HNO ₃	30 mL 125 mL 500 mL	CGSC1-30ML CGSC1-125ML CGSC1-500ML
Selenium ⁺⁴ , Se ⁺⁴	HNO_3	30 mL 125 mL 500 mL	CGSE(4)1-30ML CGSE(4)1-125ML CGSE(4)1-500ML
Selenium ⁺⁶ , Se ⁺⁶	H_2O	30 mL 125 mL	CGSE(6)1-30ML CGSE(6)1-125ML
Silica, SiO ₂	HNO ₃ / HF	30 mL 125 mL 500 mL	CGSIO1-30ML CGSIO1-125ML CGSIO1-500ML
Silica, SiO ₂	NaOH	125 mL 500 mL	CGSIONA1-125ML CGSIONA1-500ML
Silicon, Si	HNO ₃ / HF	30 mL 125 mL 500 mL	CGSI1-30ML CGSI1-125ML CGSI1-500ML
Silicon, Si	NaOH	125 mL 500 mL	CGSINA1-125ML CGSINA1-500ML
Silver, Ag	HNO_3	30 mL 125 mL 500 mL	CGAG1-30ML CGAG1-125ML CGAG1-500ML
Sodium, Na	HNO ₃	30 mL 125 mL 500 mL	CGNA1-30ML CGNA1-125ML CGNA1-500ML
Strontium, Sr	HNO_3	30 mL 125 mL 500 mL	CGSR1-30ML CGSR1-125ML CGSR1-500ML
Sulfur, S Compatible if mixed with Ba and Pb.	H ₂ O	125 mL 500 mL	CGMSA1-125ML CGMSA1-500ML
Sulfur, S	H ₂ 0	30 mL 125 mL 500 mL	CGS1-30ML CGS1-125ML CGS1-500ML
Tantalum, Ta	HNO ₃ / HF	30 mL 125 mL 500 mL	CGTA1-30ML CGTA1-125ML CGTA1-500ML
Tellurium, Te	HCI	30 mL 125 mL 500 mL	CGTE1-30ML CGTE1-125ML CGTE1-500ML
Tellurium, Te	HNO ₃	30 mL 125 mL 500 mL	CGTEN1-30ML CGTEN1-125ML CGTEN1-500ML
Terbium, Tb Commonly used as an Internal Standard for ICP-MS.	HNO_3	30 mL 125 mL 500 mL	CGTB1-30ML CGTB1-125ML CGTB1-500ML

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1,000 µg/mL

Thallium, TI HNO₂ 30 mL 125 mL 25 mL	ANALYTE	MATRIX	VOLUME	CATALOG #
Thorium, Th	Thallium, Tl	HNO ₃	125 mL	CGTL1-125ML
Thulium, Tm	Thorium, Th	HNO_3	125 mL	CGTH1-125ML
Tin, Sn	Thulium, Tm	HNO_3	125 mL	CGTM1-125ML
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tin, Sn	HCI		
	Tin, Sn	HNO ₃ / HF	125 mL	CGSN1-125ML
	Titanium, Ti	HNO ₃ / HF	125 mL	CGTI1-125ML
	Tungsten, W	HNO ₃ / HF	125 mL	CGW1-125ML
	Tungsten, W	H_2^0	125 mL	CGWH201-125ML
Vanadium, V HNO ₃ 125 mL 500 mL CGV1-125ML CGV1-500ML 500 mL CGV1-500ML 30 mL CGYB1-30ML Ytterbium, Yb HNO ₃ 125 mL CGYB1-125ML	Uranium, U	HNO ₃	125 mL	CGU1-125ML
Ytterbium, Yb HNO ₃ 125 mL CGYB1-125ML	Vanadium, V	HNO ₃	125 mL	CGV1-125ML
	Ytterbium, Yb	HNO_3	125 mL	CGYB1-125ML
Yttrium, Y Commonly used as an Internal Standard for ICP-MS. HNO ₃ 125 mL CGY1-125ML 500 mL CGY1-500ML		HNO ₃	125 mL	CGY1-125ML
	Zinc, Zn	HNO ₃	125 mL	CGZN1-125ML
30 mL CGZR1-30ML Zirconium, Zr	Zirconium, Zr	HF	125 mL	CGZR1-125ML

See pg. 34 for our HF-free Zirconium, part number CGZRCL10-125ML or CGZRCL10-500ML.

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ANALYTE	MATRIX	VOLUME	CATALOG #
Aluminum, Al	HNO ₃	30 mL 125 mL 500 mL	CGAL10-30ML CGAL10-125ML CGAL10-500ML
Antimony, Sb	HNO ₃ / Tartaric Acid	125 mL 500 mL	CGSB10-125ML CGSB10-500ML
Arsenic, As	HNO_3	30 mL 125 mL 500 mL	CGAS10-30ML CGAS10-125ML CGAS10-500ML
Barium, Ba	HNO ₃	125 mL 500 mL	CGBA10-125ML CGBA10-500ML
Beryllium, Be	HNO ₃	125 mL 500 mL	CGBE10-125ML CGBE10-500ML
Bismuth, Bi	HNO ₃	30 mL 125 mL 500 mL	CGBI10-30ML CGBI10-125ML CGBI10-500ML
Boron, B	NH ₄ OH	125 mL 500 mL	CGB10-125ML CGB10-500ML
Cadmium, Cd	HNO ₃	125 mL 500 mL	CGCD10-125ML CGCD10-500ML
Calcium, Ca	HNO_3	30 mL 125 mL 500 mL	CGCA10-30ML CGCA10-125ML CGCA10-500ML
Carbon, C	HNO ₃	125 mL	CGC10-125ML
Cerium, Ce	HNO_3	30 mL 125 mL 500 mL	CGCE10-30ML CGCE10-125ML CGCE10-500ML
Cesium, Cs	HNO ₃	125 mL 500 mL	CGCS10-125ML CGCS10-500ML
Chromium ⁺³ , Cr ⁺³	HNO_3	30 mL 125 mL 500 mL	CGCR(3)10-30ML CGCR(3)10-125ML CGCR(3)10-500ML
Cobalt, Co Commonly used as an Internal Standard for ICP-OES.	HNO_3	30 mL 125 mL 500 mL	CGC010-30ML CGC010-125ML CGC010-500ML
Copper, Cu	HNO_3	30 mL 125 mL 500 mL	CGCU10-30ML CGCU10-125ML CGCU10-500ML
Dysprosium, Dy	HNO ₃	30 mL 125 mL 500 mL	CGDY10-30ML CGDY10-125ML CGDY10-500ML
Erbium, Er	HNO ₃	30 mL 125 mL 500 mL	CGER10-30ML CGER10-125ML CGER10-500ML
Europium, Eu	HNO ₃	30 mL 125 mL 500 mL	CGEU10-30ML CGEU10-125ML CGEU10-500ML

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ANALYTE	MATRIX	VOLUME	CATALOG #
Gadolinium, Gd	HNO_3	30 mL 125 mL 500 mL	CGGD10-30ML CGGD10-125ML CGGD10-500ML
Gallium, Ga	HNO ₃	125 mL 500 mL	CGGA10-125ML CGGA10-500ML
Germanium, Ge	HNO ₃ / HF	125 mL 500 mL	CGGE10-125ML CGGE10-500ML
Gold, Au	HCI	30 mL 125 mL 500 mL	CGAU10-30ML CGAU10-125ML CGAU10-500ML
Hafnium, Hf	HNO ₃ / HF	125 mL 500 mL	CGHF10-125ML CGHF10-500ML
Holmium, Ho	HNO ₃	30 mL 125 mL 500 mL	CGH010-30ML CGH010-125ML CGH010-500ML
Indium, In Commonly used as an Internal Standard for ICP-OES.	HNO ₃	125 mL 500 mL	CGIN10-125ML CGIN10-500ML
Iridium, Ir	HCI	30 mL 125 mL 500 mL	CGIR10-30ML CGIR10-125ML CGIR10-500ML
Iron, Fe	HNO_3	30 mL 125 mL 500 mL	CGFE10-30ML CGFE10-125ML CGFE10-500ML
Lanthanum, La	HNO ₃	30 mL 125 mL 500 mL	CGLA10-30ML CGLA10-125ML CGLA10-500ML
Lead, Pb	HNO ₃	30 mL 125 mL 500 mL	CGPB10-30ML CGPB10-125ML CGPB10-500ML
Lithium, Li	HNO ₃	30 mL 125 mL 500 mL	CGL110-30ML CGL110-125ML CGL110-500ML
Lutetium, Lu	HNO_3	30 mL 125 mL 500 mL	CGLU10-30ML CGLU10-125ML CGLU10-500ML
Magnesium, Mg	HNO ₃	30 mL 125 mL 500 mL	CGMG10-30ML CGMG10-125ML CGMG10-500ML
Manganese, Mn	HNO ₃	30 mL 125 mL 500 mL	CGMN10-30ML CGMN10-125ML CGMN10-500ML
Mercury, Hg	HNO ₃	125 mL 500 mL	CGHG10-125ML CGHG10-500ML
Molybdenum, Mo	NH₄OH	30 mL 125 mL 500 mL	CGM010-30ML CGM010-125ML CGM010-500ML

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Certificate of Analysis includes lot specific trace metal impurity analysis.

Need a specific starting material or matrix? Custom 10 ppm single element solutions available upon request. Need a multielement solution? We can do that too!

ANALYTE	MATRIX	VOLUME	CATALOG #
Neodymium, Nd	HNO ₃	30 mL 125 mL 500 mL	CGND10-30ML CGND10-125ML CGND10-500ML
Nickel, Ni	HNO ₃	30 mL 125 mL 500 mL	CGNI10-30ML CGNI10-125ML CGNI10-500ML
Niobium, Nb	HNO ₃ / HF	125 mL	CGNB10-125ML
Niobium, Nb High purity, low Tantalum	HNO ₃ / HF	125 mL 500 mL	CGNB20510-125ML CGNB20510-500ML
Palladium, Pd	HCI	30 mL 125 mL 500 mL	CGPD10-30ML CGPD10-125ML CGPD10-500ML
Phosphorus, P	H ₂ 0	30 mL 125 mL 500 mL	CGP10-30ML CGP10-125ML CGP10-500ML
Platinum, Pt	нсі	30 mL 125 mL 500 mL	CGPT10-30ML CGPT10-125ML CGPT10-500ML
Potassium, K	HNO ₃	30 mL 125 mL 500 mL	CGK10-30ML CGK10-125ML CGK10-500ML
Praseodymium, Pr	HNO ₃	30 mL 125 mL 500 mL	CGPR10-30ML CGPR10-125ML CGPR10-500ML
Rhenium, Re	HNO ₃	125 mL 500 mL	CGRE10-125ML CGRE10-500ML
Rhodium, Rh	HCI	30 mL 125 mL 500 mL	CGRH10-30ML CGRH10-125ML CGRH10-500ML
Rubidium, Rb	HNO ₃	125 mL 500 mL	CGRB10-125ML CGRB10-500ML
Ruthenium, Ru	HCI	30 mL 125 mL 500 mL	CGRU10-30ML CGRU10-125ML CGRU10-500ML
Samarium, Sm	HNO ₃	30 mL 125 mL 500 mL	CGSM10-30ML CGSM10-125ML CGSM10-500ML
Scandium, Sc Commonly used as an Internal Standard for ICP-OES.	HNO ₃	30 mL 125 mL 500 mL	CGSC10-30ML CGSC10-125ML CGSC10-500ML
Selenium, Se	HNO ₃	30 mL 125 mL 500 mL	CGSE10-30ML CGSE10-125ML CGSE10-500ML
Silicon, Si	HNO ₃ / HF	30 mL 125 mL 500 mL	CGSI10-30ML CGSI10-125ML CGSI10-500ML

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Certificate of Analysis includes lot specific trace metal impurity analysis.

Need a specific starting material or matrix? Custom 10 ppm single element solutions available upon request. Need a multielement solution? We can do that too!

			, 15
ANALYTE	MATRIX	VOLUME	CATALOG #
Silver, Ag	HNO ₃	125 mL 500 mL	CGAG10-125ML CGAG10-500ML
Sodium, Na	HNO ₃	30 mL 125 mL 500 mL	CGNA10-30ML CGNA10-125ML CGNA10-500ML
Strontium, Sr	HNO ₃	125 mL 500 mL	CGSR10-125ML CGSR10-500ML
Sulfur, S Compatible if mixed with Ba and Pb.	H ₂ O	125 mL 500 mL	CGMSA10-125ML CGMSA10-500ML
Sulfur, S	H_2O	30 mL 125 mL 500 mL	CGS10-30ML CGS10-125ML CGS10-500ML
Tantalum, Ta	HNO ₃ / HF	125 mL	CGTA10-125ML
Tellurium, Te	HCI	125 mL 500 mL	CGTE10-125ML CGTE10-500ML
Terbium, Tb	HNO ₃	30 mL 125 mL 500 mL	CGTB10-30ML CGTB10-125ML CGTB10-500ML
Thallium, TI	HNO ₃	125 mL 500 mL	CGTL10-125ML CGTL10-500ML
Thorium, Th	HNO ₃	125 mL	CGTH10-125ML
Thulium, Tm	HNO ₃	30 mL 125 mL 500 mL	CGTM10-30ML CGTM10-125ML CGTM10-500ML
Tin, Sn	HNO ₃ / HF	30 mL 125 mL 500 mL	CGSN10-30ML CGSN10-125ML CGSN10-500ML
Titanium, Ti	HNO ₃ / HF	30 mL 125 mL 500 mL	CGTI10-30ML CGTI10-125ML CGTI10-500ML
Tungsten, W	HNO ₃ / HF	125 mL 500 mL	CGW10-125ML CGW10-500ML
Uranium, U	HNO ₃	30 mL 125 mL 500 mL	CGU10-30ML CGU10-125ML CGU10-500ML
Vanadium, V	HNO ₃	30 mL 125 mL 500 mL	CGV10-30ML CGV10-125ML CGV10-500ML
Ytterbium, Yb	HNO ₃	30 mL 125 mL 500 mL	CGYB10-30ML CGYB10-125ML CGYB10-500ML
Yttrium, Y Commonly used as an Internal Standard for ICP-OES.	HNO ₃	30 mL 125 mL 500 mL	CGY10-30ML CGY10-125ML CGY10-500ML

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Certificate of Analysis includes lot specific trace metal impurity analysis.

Need a specific starting material or matrix? Custom 10 ppm single element solutions available upon request. Need a multielement solution? We can do that too!

10,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Zinc, Zn	HNO_3	30 mL 125 mL 500 mL	CGZN10-30ML CGZN10-125ML CGZN10-500ML
Zirconium, Zr	HF	30 mL 125 mL 500 mL	CGZR10-30ML CGZR10-125ML CGZR10-500ML
Zirconium, Zr HF free	HCI	125 mL 500 mL	CGZRCL10-125ML CGZRCL10-500ML



Inorganic Ventures' Annual ICP Conference

Calling all ICP users — don't miss our annual ICP Conference held in the fall.

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CYANIDE STANDARDS

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Certificate of Analysis includes lot specific trace metal impurity analysis.

Custom cyanide standards are available upon request.

1,000 µg/mL

ANALYTE	μg/mL	MATRIX	VOLUME	CATALOG #
Copper, Cu	1,000	NaCN	125 mL 500 mL	AACUCN-125ML AACUCN-500ML
Gold, Au	1,000	NaCN	125 mL 500 mL	AAAUCN-125ML AAAUCN-500ML
Silver, Ag	1,000	NaCN	125 mL 500 mL	AAAGCN-125ML AAAGCN-500ML
Zinc, Zn	1,000	NaCN	125 mL 500 mL	AAZNCN-125ML AAZNCN-500ML

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Cross-Reference Table Symbols



MULTI-ELEMENT STANDARDS

Products in bold are **near identical** formulations due to small differences in matrix percentages or additional elements.

Agilent/Varian (AV)				
Agilent/Varian#	Inorganic Ventures#	Page		
5183-4681	IV-STOCK-53	p.43		
5183-4688	IV-STOCK-50	p.43		
5184-3566	IV-11304	Custom		
5185-5959	IV-STOCK-74	p.44		
5185-5959	IV-19645	Custom		
5188-6524	IV-STOCK-51	p.43		
5188-6525	IV-STOCK-75	p.44		
5188-6564	AGI-TS-1	p.49		
5190-0465	IV-37576	Custom		
5190-7001	IV-ACID-BLANK	p.108		
8500-6940	IV-STOCK-27	p.41		
8500-6944	IV-STOCK-26	p.41		
8500-6948	IV-STOCK-28	p.42		
6610030000	IV-STOCK-24	p.41		
6610030100	IV-8628	Custom		
6610030400	VAR-IS-1	p.52		
6610030500	VAR-CAL-1	p.51		
6610030600	VAR-CAL-2	p.51		
6610030700	IV-STOCK-33	p.42		
ICM-240A	WW-IPC-1	p.71		

HORIBA Jobin Yvon 🐠				
Jobin Yvon# Inorganic Page Ventures#				
JYICP-MIX23	IV-STOCK-4	p.38		
JYICP-MIXMAJ	IV-STOCK-34	p.42		

Merck/MilliporeSigma 🚺			
Merck#	Inorganic Ventures#	Page	
109410	IV-STOCK-23	p.41	
109411	IV-STOCK-24	p.41	
109480	IV-STOCK-13	p.39	
109481	IV-STOCK-14	p.40	
109492	IV-STOCK-8	p.39	
109493	IV-STOCK-10	p.39	
109494	IV-STOCK-9	p.39	
109495	IV-STOCK-17	p.40	
109498	IV-STOCK-21	p.40	
109500	IV-STOCK-18	p.40	
110322	IV-STOCK-7	p.39	
110714	IV-STOCK-5	p.38	

NIST Multi-Element Standards 🚺			
NIST#	Inorganic Ventures#	Page	
SRM1643f	IV-STOCK-1643	p.49	

Thermo Scientific 🕕			
Thermo Scientific#	Inorganic Ventures#	Page	
1323760	THERMO-5A	p.50	
1323770	THERMO-4AREV	p.50	
ZG22950	TUNE F-X-SERIES	p.51	
BRE0009578	IV-45981	Custom	
4301 228 21401	IV-STOCK-31	p.42	

Products in bold are **near identical** formulations due to small differences in matrix percentages or additional elements.

	Perkin Elmer	PE
Perkin Elmer#	Inorganic Ventures#	Page
N0582152	IV-32705	Custom
N0681470	IV-STOCK-14	p.40
N8125032	IV-STOCK-22	p.41
N8145051	IV-STOCK-77	p.44
N8145059	IV-18218	Custom
N9300208	IV-STOCK-54	p.43
N9300218	IV-STOCK-34	p.42
N9300231	IV-STOCK-30	p.42
N9300232	IV-STOCK-26	p.41
N9300234	IV-STOCK-28	p.42
N9300233	IV-STOCK-21 & MSHGN-10PPM	p.40 p.55
N9300235	IV-STOCK-29	p.42
N9301720	IV-STOCK-21	p.40
N9301721	IV-14208	Custom
N9302946	IV-STOCK-55	p.44
N9303818	IV-STOCK-35	p.42
N9303821	PE-CHK-1	p.49
N9303832	IV-STOCK-53	p.43
N9303843	PE-TS-1	p.50
N9303941	IV-19762	Custom
N9307113	IV-25755	Custom
N9307114	IV-18652	Custom
N9307116	IV-18653	Custom

Spectro S			
Spectro# Inorganic Page Ventures#			
USA00875	CIROS-OES-TS	p.49	
USA00888	GENESIS-ICAL	p.49	

Common Multi-Element Standards 🕒		
Inorganic Ventures#	Page	
IV-STOCK-2	p.38	
IV-STOCK-3	p.38	
IV-STOCK-31	p.42	
IV-STOCK-36	p.43	
IV-STOCK-56	p.44	
IV-STOCK-57	p.44	
IV-STOCK-58	p.44	
THM-TS-1	p.50	

USP Method <232> 🕕			
Inorganic Ventures#	Page		
IV-STOCK-38	p.53		
IV-STOCK-40	p.53		
IV-STOCK-41	p.53		
IV-STOCK-60	p.53		
IV-STOCK-65	p.53		
IV-STOCK-66	p.54		
IV-STOCK-67	p.54		
IV-STOCK-68	p.54		
IV-STOCK-69	p.54		
IV-STOCK-70	p.54		

IONS

Common Multi-Ion Standards 🕕			
Inorganic Ventures#	Page		
IC-FAS-1A	p.89		
IC-SCS1	p.89		
IV-STOCK-7	p.39, 89		
IV-STOCK-59	p.89		

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Can be diluted with other multi-element standards to working concentrations. Certificate of Analysis includes lot specific trace metal impurity analysis.

ICP Calibration Standard				
IV-STOCK-2 () Matrix: HNO ₃			c: HNO ₃	
IV-STOCK-2-125ML IV-STOCK-2-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ca	10,000	Mg	10,000	
K	10,000	Na	10,000	

ICP Calibration Standard				
IV-STOCK-3 (C) Matrix: HNO ₃				
IV-STOCK-3-125ML IV-STOCK-3-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ca	1,000	Mg	1,000	
K	1,000	Na	1,000	

ICP Calibration Standard			
IV-STOCK-4		Matrix: HNO ₃	
IV-STOCK-4-125ML IV-STOCK-4-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	1,000	In	1,000
Al	1,000	K	1,000
В	1,000	Li	1,000
Ва	1,000	Mg	1,000
Bi	1,000	Mn	1,000
Ca	1,000	Na	1,000
Cd	1,000	Ni	1,000
Co	1,000	Pb	1,000
Cr	1,000	Sr	1,000
Cu	1,000	TI	1,000
Fe	1,000	Zn	1,000
Ga	1,000		

C	Common Multi-Element Standards
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JY HORIBA Jobin Yvon

M	Merck/MilliporeSigma
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Wavelength Calibration Standard			
IV-STOCK-	5 M	Matrix: HCl / HF	
IV-STOCK-	5-125ML	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Al	20	Mg	1
As	20	Mn	1
В	2	Na	20
Ba	2	Ni	5
Be	1	P	10
Ca	10	Pb	20
Cd	2	Sc	1
Cr	2	Se	20
Cu	2	Sr	1
Fe	2	Те	20
Hg	5	Ti	2
K	100	Υ	1
Li	2	Zn	2

ICP Calibration Standard			
IV-STOCK-6		Matrix: HNO ₃	
IV-STOCK-	6-125ML	Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	10	Li	10
Al	10	Mg	10
As	100	Mn	10
В	100	Мо	10
Ba	10	Na	10
Be	100	Ni	10
Bi	10	Pb	10
Ca	1,000	Rb	10
Cd	10	Se	100
Со	10	Sr	10
Cr	10	Te	10
Cu	10	TI	10
Fe	100	U	10
Ga	10	V	10
K	10	Zn	100

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Can be diluted with other multi-element standards to working concentrations. Certificate of Analysis includes lot specific trace metal impurity analysis.

Cation Calibration Standard				
IV-STOCK-	7 M	Matrix: HNO ₃		
IV-STOCK-7-125ML IV-STOCK-7-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ba ⁺²	100	Mn+2	100	
Ca ⁺²	100	Na⁺	100	
K ⁺	100	NH ₄ ⁺	100	
Li*	100	Sr ⁺²	100	
Mg ⁺²	100			

ICP Calibration Standard			
IV-STOCK-	8 M	Matrix: HNO ₃	
IV-STOCK-8-125ML IV-STOCK-8-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Al	100	K	100
В	100	Li	100
Ba	100	Mg	100
Be	100	Mn	100
Bi	100	Na	100
Ca	100	Ni	100
Cd	100	Pb	100
Co	100	Se	100
Cr	100	Sr	100
Cu	100	Te	100
Fe	100	TI	100
Ga	100	Zn	100

ICP Calibration Standard – Toxic Elements				
IV-STOCK-	OCK-9 Matrix: HNO ₃		c: HNO ₃	
IV-STOCK-9-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
As	100	Pb	100	
Ве	100	Se	100	
Cd	100	TI	100	
Ni	100			

Common Multi-Ion Standards

Merck/MilliporeSigma

ICP Calibration Standard – Surface Water				
IV-STOCK-	10 M	Matrix	c: HNO ₃	
IV-STOCK-	10-125ML	Volume:	125 mL	
Analyte	μg/L*	Analyte	μg/L*	
As	50	Mg	15,000	
В	100	Mn	30	
Ва	50	Мо	100	
Ве	20	Na	8,000	
Bi	10	Ni	50	
Ca	35,000	Pb	25	
Cd	20	Se	10	
Co	25	Sr	100	
Cr	20	TI	10	
Cu	20	V	50	
Fe	100	Zn	50	
K	3,000	*Parts per billi	on	

ICP-MS Calibration Standard				
IV-STOCK-12		Matrix: HNO ₃		
IV-STOCK-	IV-STOCK-12-125ML Volume: 125 ml		125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ba	10	In	10	
Be	10	Li	10	
Bi	10	Ni	10	
Ce	10	Pb	10	
Co	10	U	10	

ICP Calibration Standard – Trace Metals				
IV-STOCK-	IV-STOCK-13		Matrix: HNO ₃	
IV-STOCK-	IV-STOCK-13-125ML		: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Al	500	Fe	100	
As	100	Mn	100	
Be	100	Ni	100	
Cd	25	Pb	100	
Co	100	Se	25	
Cr	100	V	250	
Cu	100	Zn	100	

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Can be diluted with other multi-element standards to working concentrations. Certificate of Analysis includes lot specific trace metal impurity analysis.

Wavelength Calibration Standard				
IV-STOCK-14 M PE		Matrix: HCl / HNO ₃ / HF		
IV-STOCK-	IV-STOCK-14-500ML		500 mL	
Analyte	μg/mL	Analyte	μg/mL	
As	20	Na	20	
K	100	Ni	20	
La	20	P	100	
Li	20	S	100	
Mn	20	Sc	20	
Мо	20			

ICP-MS Calibration Standard				
IV-STOCK-15 Matrix: HNO ₃			c: HNO ₃	
IV-STOCK-15-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ca	10	Li	10	
Fe	10	Na	10	
K	10			

ICP Calibration Standard – Alkaline Earth Element				
IV-STOCK-16 Matrix: HNO ₃			c: HNO ₃	
IV-STOCK-	IV-STOCK-16-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ва	1,000	Mg	1,000	
Ca	1,000	Sr	1,000	

ICP Calibration Standard – HCl Soluble Elements				
IV-STOCK-17		Matrix: HCI/HNO ₃ /HF		
IV-STOCK-17-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Hf	100	Та	100	
lr	100	Ti	100	
Sb	100	Zr	100	
Sn	100			

GF	GFAA Calibration Standard			
IV-STOCK-	IV-STOCK-18 M		Matrix: HNO ₃	
IV-STOCK-	18-125ML	Volume:	125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	10	Cu	50	
Al	100	Fe	20	
As	100	Mn	20	
Ba	50	Ni	50	
Be	5	Pb	100	
Cd	5	Sb	100	
Co	50	Se	100	
Cr	20	TI	100	

ICP Calibration Standard			
IV-STOCK-	21 M P	Matrix: HNO ₃	
IV-STOCK-21-125ML IV-STOCK-21-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	10	K	10
Al	10	Li	10
As	10	Mg	10
Ba	10	Mn	10
Ве	10	Na	10
Bi	10	Ni	10
Ca	10	Pb	10
Cd	10	Rb	10
Co	10	Se	10
Cr	10	Sr	10
Cs	10	TI	10
Cu	10	U	10
Fe	10	V	10
Ga	10	Zn	10
In	10		



Merck/MilliporeSigma



Perkin Elmer

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ICP Calibration Standard				
IV-STOCK-22 PE Matrix: HNO ₃				
IV-STOCK-22-125ML		Volume: 125 mL		
Analyte	μg/L*	Analyte	μg/L*	
Cd	200	Pb	200	
Cu	200	Rh	200	
Mg	200	*Parts per billion		

ICP Calibration Standard			
IV-STOCK-	23 M	Matrix: HNO ₃	
IV-STOCK-	23-500ML	Volume:	500 mL
Analyte	μg/L*	Analyte	μg/L*
В	1	Lu	1
Ва	1	Na	1
Co	1	Rh	1
Fe	1	Sc	1
Ga	1	TI	1
In	1	U	1
K	1	Υ	1
Li	1	*Parts per billion	

Tuning Solution			
IV-STOCK-	24 (M)	Matrix: HNO ₃	
IV-STOCK-24-125ML IV-STOCK-24-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Al	50	Mn	50
As	50	Мо	50
Ba	50	Ni	50
Cd	50	Pb	50
Co	50	Se	50
Cr	50	Sr	50
Cu	50	Zn	50
K	500		

ICP Calibration Standard			
IV-STOCK-26 AV PE		Matrix: HNO ₃	
IV-STOCK-26-125ML		Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Се	10	Pr	10
Dy	10	Sc	10
Er	10	Sm	10
Eu	10	Tb	10
Gd	10	Th	10
Но	10	Tm	10
La	10	Υ	10
Lu	10	Yb	10
Nd	10		

ICP Calibration Standard			
IV-STOCK-	27	Matrix: HNO ₃	
IV-STOCK-	27-125ML	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Ag	10	Li	10
Al	10	Mg	10
As	10	Mn	10
Ba	10	Na	10
Ве	10	Ni	10
Ca	10	Pb	10
Cd	10	Rb	10
Co	10	Se	10
Cr	10	Sr	10
Cs	10	TI	10
Cu	10	U	10
Fe	10	V	10
Ga	10	Zn	10
K	10		



Agilent/Varian



Merck/MilliporeSigma



Perkin Elmer

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Can be diluted with other multi-element standards to working concentrations. Certificate of Analysis includes lot specific trace metal impurity analysis.

ICP Calibration Standard				
IV-STOCK-	28 AV PE	Matrix: HCl / HNO ₃		
IV-STOCK-	28-125ML	Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Au	10	Rh	10	
Hf	10	Ru	10	
lr	10	Sb	10	
Pd	10	Sn	10	
Pt	10	Те	10	

ICP Calibration Standard				
IV-STOCK-	29	Matrix: HNO ₃ / HF		
IV-STOCK-	IV-STOCK-29-125ML		125 mL	
Analyte	μg/mL	Analyte	μg/mL	
В	10	S	10	
Ge	10	Si	10	
Мо	10	Та	10	
Nb	10	Ti	10	
Р	10	W	10	
Re	10	Zr	10	

ICP Calibration Standard				
IV-STOCK-	30	Matrix	c: HNO₃	
IV-STOCK-	OCK-30-125ML Volume: 125 mL		125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ве	10	Mg	10	
Bi	10	Ni	10	
Ce	10	Pb	10	
Co	10	U	10	
In	10			

Agilent/Varian

🕑 Common Multi-Element Standards

HORIBA Jobin Yvon

PE Perkin Elmer

10	ICP Calibration Standard			
IV-STOCK-31 (F) Matrix: HNO ₃			c: HNO ₃	
IV-STOCK-31-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Al	1	Mg	0.2	
Ba	0.2	Mn	1	
Ca	0.2	Ni	5	
Cu	1	Р	10	
K	5	Zn	0.2	

Calibration Standard – Mix Majors				
IV-STOCK-33 AV Matrix: HNO ₃				
IV-STOCK-33-125ML IV-STOCK-33-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ca	500	Mg 500		
Fe	500	Na	500	
K	500			

ICP Calibration Standard				
IV-STOCK-34 PE JY Matrix: HNO ₃				
IV-STOCK-34-125ML IV-STOCK-34-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ca	5,000	Mg	5,000	
K	5,000	Na	5,000	

ICP Calibration Standard				
IV-STOCK-35 PB Matrix: HNO ₃				
IV-STOCK-35-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ca	1,000	Mg	1,000	
Fe	1,000	Na	1,000	
K	1,000			

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Can be diluted with other multi-element standards to working concentrations. Certificate of Analysis includes lot specific trace metal impurity analysis.

ICP Calibration Standard			
IV-STOCK-36 (F) Matrix: HC		ix: HCl	
IV-STOCK-36-125ML IV-STOCK-36-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Au	100	Pt	100
Pd	100		

Environmental Calibration Standard			
IV-STOCK-50		Matrix: HNO ₃ / HF	
IV-STOCK-	50-125ML	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Ag	10	Mn	10
Al	10	Мо	10
As	10	Na	1000
Ва	10	Ni	10
Ве	10	Pb	10
Ca	1,000	Sb	10
Cd	10	Se	10
Co	10	Th	10
Cr	10	TI	10
Cu	10	U	10
Fe	1,000	V	10
K	1000	Zn	10
Mg	1000		

Internal Standard			
IV-STOCK-53 (AV) PE Matrix: HNO ₃ / HF			
IV-STOCK-53-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Bi	10	Sc	10
Ge	10	Tb	10
In	10	Υ	10
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Agilent/Varian



Common Multi-Element Standards



Perkin Elmer

	7500 Series PA Tuning Solution 1 (commonly used with IV-Stock-52)		
IV-STOCK-	IV-STOCK-51 AV		c: HNO ₃
IV-STOCK-	51-125ML	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Al	5	Mn	5
As	20	Na	5
Ba	5	Ni	10
Ве	20	Pb	10
Bi	5	Sc	5
Cd	20	Sr	5
Co	5	Th	5
Cr	5	TI	5
Cu	5	U	5
In	5	V	5
⁶ Li	5	Υ	2.5
Lu	5	Yb	2.5
Mg	10	Zn	20

7500 Series PA Tuning Solution 2 (commonly used with IV-Stock-51)			
IV-STOCK-52 Matrix: HCI			
IV-STOCK-52-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ge	10	Ru	10
lr	5	Sb	10
Мо	10	Sn 10	
Pd 10 Ti 5		5	

Interference Check Standard			
IV-STOCK-54 PE Matrix		x: HNO ₃	
IV-STOCK-54-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Al	1200	Mg	3000
Ca	6000	Na	1000
Fe	5000		

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Wavecal Standard			
IV-STOCK-55 PE Matrix: HNO ₃		c: HNO ₃	
IV-STOCK-55-125ML		Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Ва	1	Li	10
Ca	1	Mn	10
K	50	Na	10
La	10	Sr	10

ICP Calibration Standard			
IV-STOCK-56 () Matrix: HNO ₃ / HF			HNO ₃ / HF
IV-STOCK-56-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Мо	100	Sn	100
Sb	100	Ti	100
Si	100		

ICP Calibration Standard			
IV-STOCK-57 (C) Matrix: HNO ₃ /		HNO ₃ / HF	
IV-STOCK-57-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Мо	10	Sn	10
Sb	10	Ti	10

ICP Calibration Standard			
IV-STOCK-58 C Matrix: HCl		ix: HCl	
IV-STOCK-58-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Au	100	Pt	100
lr	100	Re	100
0s	100	Rh	100
Pd	100	Ru	100

AV	Agilent/Varian
ΑV	Aylielit/ Valiali

Common Multi-Element Standards

PE Perkin Elmer

ICP-MS Tuning Solution				
IV-STOCK-74 (AV) Matrix: HNO ₃				
IV-STOCK-74-500ML		Volume: 500 mL		
Analyte	μg/L*	Analyte	μg/L*	
Ce	1	Mg	1	
Co	1	TI	1	
Li	1	Υ	1	

*Parts	per	bil	lion
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ICP-MS Internal Standard				
IV-STOCK-75 Matrix: HNO ₃ / HF				
IV-STOCK-75-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Bi	100	Lu	100	
Ge	100	Rh	100	
ln	100	Sc	100	
⁶ Li	100	Tb	100	

ICP-MS Tuning Solution			
IV-STOCK-	77	Matrix: HNO ₃	
IV-STOCK-77-500ML		Volume: 500 mL	
Analyte	μg/L*	Analyte	μg/L*
Ве	1	Li	1
Ce	1	Mg	1
Fe	1	Pb	1
In	1	U	1

*Parts per billion

These elements are grouped for ease of use. Intended for ICP-MS and ICP-OES, they can be used individually or in any combination upon dilution into 1% HNO₃. Custom ICP-MS/OES calibration standards are available upon request.

65-Element Group

Rare Earth ICP-MS Standard			
CMS-1	C	Matrix: HNO ₃	
CMS-1-125	ML	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Ce	10	Pr	10
Dy	10	Sc	10
Er	10	Sm	10
Eu	10	Tb	10
Gd	10	Th	10
Но	10	Tm	10
La	10	U	10
Lu	10	Υ	10
Nd	10	Yb	10

For ICP analysis of all rare earth elements plus U and Th.

Precious Metals ICP-MS Standard			
CMS-2	C	Matrix: HCl	
CMS-2-125ML CMS-2-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Au	10	Re	10
lr	10	Rh	10
Pd	10	Ru	10
Pt	10	Те	10

For ICP analysis of precious metals plus Re and Te.

Fluoride Soluble ICP-MS Standard			
CMS-3	C	Matrix: HNO ₃ /HF	
CMS-3-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ge	10	Та	10
Hf	10	Ti	10
Мо	10	W	10
Nb	10	Zr	10
Sn	10		

For ICP analysis of elements that tolerate or require HF for stability

Hot Plasma ICP-MS Complete Standard				
CMS-4	C	Matrix: HNO ₃		
	CMS-4-125ML CMS-4-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL	
As	10	In	10	
В	10	Pb	10	
Ba	10	Sb	10	
Ве	10	Se	10	
Bi	10	TI	10	
Cd	10	V	10	
Ga	10			

For direct use in ICP analysis or as stock concentrate.

Cool Plasma ICP-MS Complete Standard				
CMS-5	C	Matrix: HNO ₃		
	MS-5-125ML MS-5-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	10	Li	10	
Al	10	Mg	10	
Ca	10	Mn	10	
Co	10	Na	10	
Cr	10	Ni	10	
Cs	10	Rb	10	
Cu	10	Sr	10	
Fe	10	Zn	10	
K	10			

For direct use in ICP analysis or as stock concentrate.

These elements are grouped for ease of use. Intended for ICP-MS and ICP-OES, they can be used individually or in any combination upon dilution into 1% HNO₃. Custom ICP-MS/OES calibration standards are available upon request.

69-Element Group

Rare Earth ICP-MS Standard			
CCS-1	C	Matrix: HNO ₃	
CCS-1-125ML CCS-1-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Ce	100	Pr	100
Dy	100	Sc	100
Er	100	Sm	100
Eu	100	Tb	100
Gd	100	Th	100
Но	100	Tm	100
La	100	U	100
Lu	100	Υ	100
Nd	100	Yb	100

For ICP analysis of all rare earth elements plus U and Th. Uranium is isotopically depleted. Can be diluted with CCS-4 and CCS-6 to working concentrations.

Precious Metals ICP-MS Standard			
CCS-2	C	Matrix: HCl	
CCS-2-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Au	100	Pt	100
Ir	100	Rh	100
Pd	100	Ru	100

For simultaneous ICP analysis of precious metals. Can be diluted with CCS-1 or CCS-5 to working concentrations. For dilution with CCS-6 please see Silver Chemical Stability article for more information about Ag stability in HCI.

Alkali, Alkaline, Non-Transition ICP-MS Standard			
CCS-4	C	Matrix: HNO ₃	
CCS-4-125ML CCS-4-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Al	100	In	100
As	100	K	100
Ba	100	Li	100
Ве	100	Mg	100
Bi	100	Na	100
Ca	100	Rb	100
Cs	100	Se	100
Ga	100	Sr	100

For use as stock concentrate for ICP analysis. Can be diluted with CCS-1 and CCS-6 to working concentrations.

Fluoride Soluble ICP-MS Standard			
CCS-5	C	Matrix: HNO ₃ /HF	
CCS-5-125ML CCS-5-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
В	100	Sb	100
Ge	100	Si	100
Hf	100	Sn	100
Мо	100	Та	100
Nb	100	Ti	100
P	100	W	100
Re	100	Zr	100
S	100		

For ICP analysis of elements that tolerate or require HF for stability. Can be diluted with CCS-2 and CCS-6 to working concentrations. Can be diluted with CCS-4 to lower working concentrations (<10 ppm recommended).

C

These elements are grouped for ease of use. Intended for ICP-MS and ICP-OES, they can be used individually or in any combination upon dilution into 1% HNO₃. Custom ICP-MS/OES calibration standards are available upon request.

69-Element Group

Transition ICP-MS Standard			
CCS-6	C	Matrix: HNO ₃	
CCS-6-125 CCS-6-500		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	100	Mn	100
Cd	100	Ni	100
Co	100	Pb	100
Cr	100	TI	100
Cu	100	V	100
Fe	100	Zn	100
Hg	100		

For use as stock concentrate for ICP analysis. Can be diluted with CCS-1 and CCS-4 to working concentrations. Contains mercury (Hg); please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

ICP-MS Refractory Elements Standard			
IV-ICPMS-71B		Matrix: HNO ₃ / HF	
IV-ICPMS-71B-125ML IV-ICPMS-71B-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte µg/mL	
Ge	10	Sn	10
Hf	10	Та	10
Мо	10	Те	10
Nb	10	Ti	10
Sb	10	W	10
Si	10	Zr	10

Can be diluted to working concentrations without additional HF for stability.

71-Element Group

ICP-MS Complete Standard			
IV-ICPMS-71A			
IV-ICPMS-71A-125ML IV-ICPMS-71A-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	10	Lu	10
Al	10	Mg	10
As	10	Mn	10
В	10	Na	10
Ba	10	Nd	10
Ве	10	Ni	10
Ca	10	P	10
Cd	10	Pb	10
Ce	10	Pr	10
Co	10	Rb	10
Cr	10	S	10
Cs	10	Se	10
Cu	10	Sm	10
Dy	10	Sr	10
Er	10	Th	10
Eu	10	TI	10
Fe	10	Tm	10
Ga	10	U	10
Gd	10	V	10
Но	10	Yb	10
K	10	Zn	10
La	10		

Uranium is isotopically depleted. Can be diluted with other multi-element standards to working concentrations.

G

These elements are grouped for ease of use. Intended for ICP-MS and ICP-OES, they can be used individually or in any combination upon dilution into 1% HNO₃. Custom ICP-MS/OES calibration standards are available upon request.

71-Element Group

ICP-MS Precious Metals Standard			
IV-ICPMS-71C		Matrix: HCl	
IV-ICPMS-71C-125ML IV-ICPMS-71C-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Au	10	Pt	10
lr	10	Re	10
0s	10	Rh	10
Pd	10	Ru	10

Contains osmium (0s); avoid dilutions with oxidizing acids such as concentrated HN03. For dilutions including Ag please see Silver Chemical Stability article for more information about Ag stability in HCI.

ICP-MS Internal Standard			
IV-ICPMS-71D ()		Matrix: HNO ₃	
IV-ICPMS-71D-125ML IV-ICPMS-71D-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte μg/mL	
Bi	10	Sc	10
In	10	Tb	10
⁶ Li	10	Υ	10

Covers mass range from 6-Li to 209-Bi. Certified reference material that may also be used for calibration. Can be diluted with other multi-element standards to working concentrations.

Lithium ICP-MS Standard			
MSLI-10PPM G Matrix: HNO ₃			
MSLI-10PPM-125ML Volume: 125 mL			
Analyte	μg/mL		
Li	10		

Mercury ICP-MS Standard			
MSHG-10PPM () Matrix: HCl			
MSHG-10PPM-125ML MSHG-10PPM-500ML	Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL		
Hg 10			

Tellurium ICP-MS Standard			
MSTEN-100PPM (F) Matrix: HNO ₃			
MSTEN-100PPM-125ML Volume: 125 mL			
Analyte	μg/mL		
Te	100		

C C

AGI Tuning Solution			
AGI-TS-1		Matrix: HNO ₃	
AGI-TS-1-125ML AGI-TS-1-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Ce	10	TI	10
Co	10	Υ	10
Li	10		

ICP-MS stock tuning solution designed for dilution to working concentrations. Covers mass range from Li to Tl. Certified reference material that may also be used for calibration. Agilent P/N 5188-6564.

CIROS Tuning Solution			
CIROS-OES-TS		Matrix: HCl / HNO ₃	
CIROS-OES-TS-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Fe	10	Р	10
K	10	S	50
La	10	Sc	10
Mg	5	Ti	10
Mn	5		

For reprofiling optics of Spectro Ciros ICP-OES.

GENESIS Calibration Standard			
GENESIS-ICAL S		Matrix: HNO ₃ / HCl / HF	
GENESIS-ICAL-125ML GENESIS-ICAL-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Be	2	Na	5
Ca	1	Ni	10
Ce	10	P	10
Cu	10	S	50
Eu	10	Sc	5
Fe	10	Si	10
In	10	Sr	2
K	10	Ti	10
Li	2	V	10
Mn	5	Υ	10
Мо	5	Zr	10

For reprofiling optics of Spectro Ciros ICP-OES.

Trace	Trace Metals in Water- SRM1643			
IV-STOCK-	1643	Matrix	c: HNO ₃	
	IV-STOCK-1643-125ML IV-STOCK-1643-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/L*	Analyte	μg/L*	
Ag	1	Mg	8,000	
Al	142	Mn	39	
As	60	Мо	121	
В	158	Na	21,000	
Ba	544	Ni	62	
Ве	14	Pb	20	
Bi	14	Rb	14	
Ca	32,000	Re	113	
Cd	7	Sb	58	
Co	27	Se	12	
Cr	20	Sr	323	
Cu	23	Те	1	
Fe	98	TI	7	
K	2,000	V	38	
Li	17	Zn	79	

^{*}Parts per billion

For quality control and method evaluation of fresh water trace element analyses. Ready to use without dilution.

Instrument Check Standard				
PE-CHK-1	PE	Matrix: HNO ₃ / HF		
PE-CHK-1-1	125ML	Volume:	125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	10	Mn	10	
Al	10	Ni	10	
As	10	Pb	10	
Ba	10	Sb	10	
Ве	10	Se	10	
Cd	10	TI	10	
Со	10	V	10	
Cr	10	Zn	10	
Cu	10			

For daily instrument calibration.



Agilent/Varian



Perkin Elmer



NIST



Spectro

Tuning Solution				
PE-TS-1	PE	Matrix: HNO ₃		
	PE-TS-1-125ML Volume: 12: PE-TS-1-500ML Volume: 500		-	
Analyte	μg/mL	Analyte	μg/mL	
Ва	10	Mg	10	
Ве	10	Pb	10	
Ce	10	Rh	10	
Co	10	TI	10	
In	10	U	10	
Li	10	Υ	10	

For instrument set-up and calibration. Covers mass range from Li to U (isotopically depleted).

ICP-MS Tuning Solution – Tune B iCAP				
THERMO-4AREV 🕕		Matrix: HNO ₃ /HCl		
THERMO-4AREV-500ML THERMO-4AREV-1L		Volume: 500 mL Volume: 1 L		
Analyte	μg/L*	Analyte	μg/L*	
Ba	1	In	1	
Bi	1	Li	1	
Ce	1	U	1	
Co	1	*Parts per billion		

Tuning solution for Thermo iCAP Q ICP-MS. Equivalent to Thermo P/N 1323770.

ICP-MS Tuning Solution – iCAP Q				
THERMO-5	THERMO-5A		c: HNO ₃	
THERMO-5A-125ML THERMO-5A-250ML		Volume: 125 mL Volume: 250 mL		
Analyte	μg/L*	Analyte	μg/L*	
Ag	6	Mg	10	
Al	10	Mn	6	
Ва	4	Ni	15	
Ве	35	Rh	3	
Bi	3	Sc	8	
Ce	3	Sr	5	
Co	8	Ta	3	
Cs	3	Tb	3	
Cu	15	TI	4	
Ga	10	U	3	
Но	3	Υ	3	
In	3	Zn	20	
Li	8	*Parts per billion		

Calibration standard for Thermo iCAP Q ICP-MS. Equivalent to Thermo P/N 1323760.

Tuning Solution			
THM-TS-1	C	Matrix: HNO ₃	
THM-TS-1-	125ML	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
В	10	Lu	10
Ва	10	Na	10
Co	10	Rh	10
Fe	10	Sc	10
Ga	10	Th	10
In	10	U	10
K	10	Υ	10
Li	10		

A general tuning solution suitable for numerous ICP-MS designs and models.

Common Multi-Element Standard

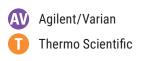
Perkin Elmer

Thermo Scientific

Tune	F-X-Series	Tuning Sol	ution
TUNE F-X-		Matrix: HNO ₃ /HF	
TUNE F-X-SERIES- 125ML		Volume: 125 mL	
Analyte	ng/mL*	Analyte	ng/mL*
Ag	40	Na	40
Al	50	Nb	20
As	250	Nd	45
В	200	Ni	150
Ва	50	Р	1000
Ве	500	Pb	10
Bi	5	Pd	100
Ca	1000	Pr	10
Cd	100	Rb	30
Ce	10	Re	15
Co	35	Sb	40
Cr	40	Sc	30
Cs	15	Se	1250
Cu	150	Si	1000
Dy	25	Sm	45
Er	15	Sn	45
Eu	10	Sr	20
Fe	20	Ta	5
Ga	45	Tb	5
Gd	45	Те	500
Ge	150	Th	5
Hf	15	Ti	500
Но	5	TI	10
In	10	Tm	5
K	35	U	5
La	10	V	40
Li	100	W	25
Lu	5	Υ	15
Mg	50	Yb	25
Mn	20	Zn	150
Мо	100	Zr	35

*Parts per billion

For detector cross-calibration on Thermo X-Series ICP-MS.



Calibration Standard				
VAR-CAL-1 AV Matrix: HNO ₃ / HF		HNO ₃ / HF		
VAR-CAL-1-125ML VAR-CAL-1-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Мо	100	Sn	100	
Sb	100	Ti	100	

General ICP-OES calibration standard. Designed to be mixed with VAR-CAL-2 at working concentrations.

Calibration Standard			
VAR-CAL-2	AV	Matrix: HNO ₃	
VAR-CAL-2	-125ML	Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	100	Mn	100
Al	100	Ni	100
As	100	Pb	100
Ba	100	Se	100
Be	100	Th	100
Cd	100	TI	100
Co	100	U	100
Cr	100	V	100
Cu	100	Zn	100

General ICP-OES calibration standard. Designed to be mixed with VAR-CAL-1 at working concentrations.

Calibration Standard			
VAR-CAL-7	AV	Matrix: HNO ₃ /HF	
VAR-CAL-7 VAR-CAL-7		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Al	5	Mn	5
As	5	Мо	5
Ba	5	Ni	5
Cd	5	Pb	5
Co	5	Se	5
Cr	5	Sr	5
Cu	5	Zn	5
K	50		

ICP-0ES calibration standard.

Multi-Element Standards

MULTI-ELEMENT STANDARDS

Identical or near identical formulations

ICP Internal Standard				
VAR-IS-1 AV Matrix: HNO ₃			x: HNO ₃	
VAR-IS-1-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Bi	100	Sc	100	
In	100	Tb	100	
⁶ Li	100	Υ	100	

For use as ICP-MS multi-element internal standard. Covers mass range from 6-Li to 209-Bi

Tuning Solution			
VAR-TS-MS Matrix: HNO ₃		c: HNO ₃	
VAR-TS-MS-125ML		Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Ba	10	Mg	10
Ве	10	Pb	10
Ce	10	Th	10
Co	10	TI	10
In	10		

For use as ICP-MS tuning solution. Covers mass range from 9-Be to 232-Th. Certified reference material that may also be used for calibration.



HIGH-PURITY IONIZATION BUFFERS

Ionization buffers are 99.999+% pure. They are analyzed using both axial-view ICP-0ES and ICP-MS for 70+ impurities. Custom ionization buffers are available upon request.

1% Cesium Ionization Buffer			
CSN-ISB Matrix: HNO ₃			
CSN-ISB-500ML Volume: 500 mL			
Analyte	μg/mL		
Cs 10,000			
High Purity buffer; ideal for Axial View ICP-0ES			

For stabilizing the degree of ionization in flame AA and ICP-OES analysis.

5% Cesium Ionization Buffer			
CSN-ISB5 Matrix: HNO ₃			
CSN-ISB5-500ML Volume: 500 mL			
Analyte	μg/mL		
Cs 50,000			

For stabilizing the degree of ionization in flame AA and ICP-OES analysis.

2% Lithium Ionization Buffer			
LINB2 Matrix: HNO ₃			
LINB2-125ML Volume: 125 mL			
Analyte	Analyte µg/mL		
Li 20,000			

For stabilizing the degree of ionization in flame AA and ICP-OES analysis. Not to be used as a calibration standard, for analytical reagent use only.

Manufactured with high-purity starting materials and reagents. Products can be used for calibration of analytical instruments, validation of analytical methods, or for other applications deemed fit for purpose by the end-user. Can be diluted with other multi-element standards to working concentrations. Certificate of Analysis includes lot specific trace metal impurity analysis.

For the pharmaceutical industry, Inorganic Ventures has developed CRMs to comply with the United States Pharmacopeia (USP) general chapters on elemental impurity USP <232> limits and USP <233> procedures.

These methods are for testing inorganic impurities in pharmaceutical products by ICP. The International Conference on Harmonization (ICH) Working Group on Elemental Impurities is in the process of developing a harmonized approach for controlling these impurities as well.

USP <232> Precious Metals Elemental Impurities			
IV-STOCK-38 U Matrix: HCl			
IV-STOCK-	IV-STOCK-38-125ML Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL
lr	100	Pt	100
0s	100	Rh	100
Pd	100	Ru	100

USP <232> Oral Elemental Impurities				
IV-STOCK-40 U Matrix: HNO ₃				
IV-STOCK-	40-125ML	Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
As	1.5	Мо	100	
Cd	25	Ni	500	
Cu	1000	Pb	5	
Hg	15	V	100	

USP <232> Parenteral Elemental Impurities				
IV-STOCK-41 U Matrix: HNO ₃				
IV-STOCK-41-125ML Volume: 125 mL			125 mL	
Analyte	μg/mL	Analyte	μg/mL	
As	1.5	Мо	10	
Cd	2.5	Ni	50	
Cu	100	Pb	5	
Hg	1.5	V	10	

USP <232> Drug Substance and Excipients				
IV-STOCK-60		Matrix: HCl		
IV-STOCK-	60-125ML	Volume:	: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
As	1.5	0s	10	
Cd	0.5	Pb	0.5	
Cr	1100	Pd	10	
Cu	300	Pt	10	
Hg	3	Rh	10	
lr	10	Ru	10	
Мо	300	V	10	
Ni	20			

USP <232> / ICH Q3D Class 1 Oral Elemental Impurities			
IV-STOCK-65 U Matrix: HNO ₃			
IV-STOCK-65-125ML		Volume: 125 mL	
Analyte μg/mL		Analyte	μg/mL
As 15		Hg	30
Cd	5	Pb	5





U U

USP Method <232>

USP <232> / ICH Q3D Class 2A Oral Elemental Impurities			
IV-STOCK-66 U Matrix: HNO ₃			
IV-STOCK-	IV-STOCK-66-125ML Volume: 125 mL		
Analyte μg/mL		Analyte	μg/mL
Co	50	V	100
Ni	200		

USP <232> / ICH Q3D Class 2B Oral Elemental Impurities				
IV-STOCK-67 U Matrix: HCI				
IV-STOCK-67-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte µg/mL		
Au	100	Rh	100	
lr	100	Ru	100	
0s	100	Se	150	
Pd	100	TI	8	
Pt	100			

USP <232> / ICH Q3D Class 2B Oral Elemental Impurities			
IV-STOCK-68			
IV-STOCK-68-125ML		Volume	125 mL
Analyte	μg/mL	Analyte μg/mL	
Ag*	150		

^{*} Silver has been separated from the other Class 2B elements due to long-term stability concerns. However, IV-STOCK-68 can be combined with IV-STOCK-67 at working levels. Contact Technical Support or visit our Technical Forum for more information regarding Ag in HCl matrices.

USP <232> / ICH Q3D Class 3 Oral Elemental Impurities			
IV-STOCK-69 U Matrix: HNO ₃ /tr HF			
IV-STOCK-69-125ML Volume: 125 mL		: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ва	140	Мо	300
Cr	1100	Sb	120
Cu	300	Sn	600
Li	55		

USP Method <232>

	USP <232> / ICH Q3D Oral Elemental Impurities			
IV-STOCK-	70 U	Matr	ix: HCl	
IV-STOCK-	70-125ML	Volume	: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	15	Ni	20	
As	1.5	0s	10	
Au	10	Pb	0.5	
Ва	140	Pd	10	
Cd	0.5	Pt	10	
Co	5	Rh	10	
Cr	1100	Ru	10	
Cu	300	Sb	120	
Hg	3	Se	15	
lr	10	Sn	600	
Li	55	TI	0.8	
Мо	300	V	10	

Don't see exactly what you are looking for?

With the continuous USP <232> revisions over the years, you may require an older method or possibly a newer one. Contact us to method for your custom

W-STOCK-66

Bringing Confidence to the Cannibis Industry

In an industry where regulations and testing requirements vary by state, put your trust in Inorganic Ventures. We aim to squash inter-laboratory variations in the Cannabis industry and make it easier for your lab to get accurate results time and time again.

We offer single and multi-element standards to ensure your final product is free of dangerous heavy metals that may arise from soil contamination in agricultural production or manufacturing processes.

- Extensive documentation: Certificate of Analysis (CoA) and Safety Data Sheet (SDS)
- TCT packaging prevents transpiration, guarantees up to a 5-year shelf life, and allows for storage outside of normal lab conditions.
- 100% satisfaction guarantee



10 μg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Arsenic, As	HNO ₃	125 mL	MSAS-10PPM-125ML
Cadmium, Cd	HNO ₃	125 mL	MSCD-10PPM-125ML
Lead, Pb	HNO ₃	125 mL	MSPB-10PPM-125ML
Mercury, Hg	HCI	125 mL 500 mL	MSHG-10PPM-125ML MSHG-10PPM-500ML
Mercury, Hg	HNO ₃	125 mL 500 mL	MSHGN-10PPM-125ML MSHGN-10PPM-500ML

100 μg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Arsenic, As	HNO ₃	125 mL	MSAS-100PPM-125ML
Cadmium, Cd	HNO ₃	125 mL	MSCD-100PPM-125ML
Lead, Pb	HNO ₃	125 mL 500 mL	MSPB-100PPM-125ML MSPB-100PPM-500ML
Mercury, Hg	HCI	125 mL	MSHG-100PPM-125ML
Mercury, Hg	HNO ₃	125 mL	MSHGN-100PPM-125ML

1,000 μg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Arsenic, As	HNO ₃	30 mL 125 mL 500 mL	CGAS1-30ML CGAS1-125ML CGAS1-500ML
Arsenic ⁺³ , As ⁺³	HCI / NaOH / NaHCO ₃	30 mL 125 mL 500 mL	CGAS(3)1-30ML CGAS(3)1-125ML CGAS(3)1-500ML
Arsenic ⁺⁵ , As ⁺⁵	$\rm H_2O$	30 mL 125 mL 500 mL	CGAS(5)1-30ML CGAS(5)1-125ML CGAS(5)1-500ML
Cadmium, Cd	HNO ₃	30 mL 125 mL 500 mL	CGCD1-30ML CGCD1-125ML CGCD1-500ML
Lead, Pb	HNO ₃	30 mL 125 mL 500 mL	CGPB1-30ML CGPB1-125ML CGPB1-500ML
Mercury, Hg	HNO ₃	30 mL 125 mL 500 mL	CGHG1-30ML CGHG1-125ML CGHG1-500ML

$10,000 \mu g/mL$

ANALYTE	MATRIX	VOLUME	CATALOG #
Arsenic, As	HNO_3	30 mL 125 mL 500 mL	CGAS10-30ML CGAS10-125ML CGAS10-500ML
Cadmium, Cd	HNO ₃	125 mL 500 mL	CGCD10-125ML CGCD10-500ML
Lead, Pb	HNO_3	30 mL 125 mL 500 mL	CGPB10-30ML CGPB10-125ML CGPB10-500ML
Mercury, Hg	HNO ₃	125 mL 500 mL	CGHG10-125ML CGHG10-500ML



Does your state require testing for elements in addition to the Big 4? Request a custom quote! As the leading manufacturer of custom inorganic standards, we've produced tens of thousands of unique custom blends for laboratories worldwide.

While our USP <232>/ICH Q3D stock products were formulated for the pharmaceutical industry, these products can be used to test heavy metals in cannabis. The Big 4 (Arsenic, Mercury, Cadmium, and Lead) are common analytes for cannabis testing.

USP <232>	USP <232> / ICH Q3D Class 1 Oral Elemental Impurities			
IV-STOCK-65-125ML Volume: 125 mL Matrix: HNO ₃			Matrix: HNO ₃	
Analyte	μg/mL	Analyte	μg/mL	
As	15	Hg	30	
Cd	5	Pb	5	

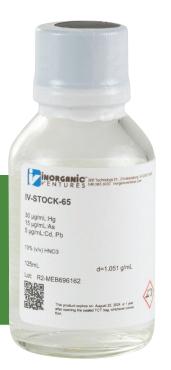
The following are custom products. They are available to order, but not are not stock items.

Custom Heavy Metal Standard			
IV-6239 Matrix: HNO ₃			: HNO ₃
Analyte	μg/mL	Analyte	μg/mL
As	15	Hg	3
Cd	2	Pb	5

Custom Heavy Metal Standard			
IV-48592 Matrix: HNO ₃			: HNO ₃
Analyte	μg/mL	Analyte	μg/mL
As	2	Hg	1
Cd	2	Pb	5

Don't see what you need?

Contact us with the solution part number and instrument manufacturer you're seeking, and we'll check our extensive library of solutions.



Over the years, we've developed a unique line of EPA standards. If you do not see what you are looking for, please contact us with an EPA custom request and we will get you competitive pricing guaranteed.



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- ✓ Up to five-year shelf life
- ✓ Traceable to NIST SRMs
- ✓ Produced under ISO 9001
- ✓ Produced under ISO 17025
- ✓ Produced under ISO 17034
- ✓ Assayed by validated Wet Chemical procedures
- ✓ Assayed by validated instrument procedures

LM03.0

Standards for ILMO3.0 are designed for use with ICP-OES. Custom EPA standards are available upon request.

Calibration Standard			
CLPP-CAL-1		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-	1-125ML	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Ag	250	Fe	1,000
Al	2,000	K	5,000
Ba	2,000	Mg	5,000
Ве	50	Mn	500
Ca	5,000	Na	5,000
Co	500	Ni	500
Cr	200	V	500
Cu	250	Zn	500

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard			
CLPP-CAL-3		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-3-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
As	1,000	Se	1,000
Cd	500	TI	1,000
Pb	1,000		

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard		
CGSB1 Matrix: HNO ₃ /Tartaric Acid Dilution 1:100		
CGSB1-125ML Volume: 125 mL		
Analyte	μg/mL	
Sb 1,000		

CICV Standards – Continuing and Initial Calibration Verification

CICV Standard [†]			
QCP-CICV-1		Matrix: HNO ₃ Dilution 1:100 or 1:500	
QCP-CICV-1-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	125	Fe	500
Al	1,000	K	2,500
Ba	1,000	Mg	2,500
Ве	25	Mn	250
Ca	2,500	Na	2,500
Co	250	Ni	250
Cr	100	V	250
Cu	125	Zn	250

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

CICV Standard [†]		
QCP-CICV-2 Matrix: HNO ₃ /Tartaric Acid Dilution 1:100 or 1:500		
QCP-CICV-2-125ML	Volume: 125 mL	
Analyte	μg/mL	
Sb	500	

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. For analyses requiring antimony (Sb). Designed to be diluted to working concentrations with QCP-CICV-1 and/or QCP-CICV-3.

CICV Standard [†]			
QCP-CICV-3		Matrix: HNO ₃ Dilution 1:100 or 1:500	
QCP-CICV-3-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
As	500	Se	500
Cd	250	TI	500
Pb	500		

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

 $^{{\}bf tManufactured\ from\ in-house\ Second\ Source\ concentrates,\ whenever\ possible}.$

CRDL Standards - Contract Required Detection Limit

We can create any CRDL standard to best fit your needs.

Custom solutions are our specialty.



Soil & Water Spike Standards

Spike Standard*			
CLPP-SPK-1		Matrix: HNO ₃ Dilution 1:1,000	
CLPP-SPK-1-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	50	Cu	250
Al	2,000	Fe	1,000
Ba	2,000	Mn	500
Ве	50	Ni	500
Co	500	V	500
Cr	200	Zn	500

For use as ICP-OES soil or water spike standard in EPA Contract Laboratory Program (CLP) methods.

Spike Standard*		
CLPP-SPK-2 Matrix: HNO ₃ /Tartaric Acid Dilution 1:1,000		
CLPP-SPK-2-125ML	Volume: 125 mL	
Analyte	μg/mL	
Sb	500	

For use as Sb spike standard in EPA Contract Laboratory Program (CLP) methods.

*Instructions included

Interference Check Standards

For use as ICP-OES soil or water spike standard in EPA Contract Laboratory Program (CLP) methods.

Interference Check Standard			
CLPP-ICS-A		Matrix: HNO ₃ Dilution 1:10	
CLPP-ICS-A-125ML CLPP-ICS-A-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Al	5,000	Fe	2,000
Ca	5,000	Mg	5,000

Interference Check Standard			
CLPP-ICS-B		Matrix: HNO ₃ Dilution 1:100	
CLPP-ICS-B-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	100	Cu	50
Ba	50	Mn	50
Ве	50	Ni	100
Cd	100	Pb	100
Co	50	V	50
Cr	50	Zn	100

Standards for ILMO4.0 are designed for use with ICP-0ES. Custom EPA standards are available upon request.

Calibration Standards

Calibration Standard			
CLPP-CAL-1		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-1-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	250	Fe	1,000
Al	2,000	K	5,000
Ba	2,000	Mg	5,000
Ве	50	Mn	500
Ca	5,000	Na	5,000
Co	500	Ni	500
Cr	200	V	500
Cu	250	Zn	500

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard			
CLPP-CAL-3		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-3-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
As	1,000	Se	1,000
Cd	500	TI	1,000
Pb	1,000		

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard		
CGSB1 Matrix: HNO ₃ /Tartaric Acid Dilution 1:100		
CGSB1-125ML	Volume: 125 mL	
Analyte	μg/mL	
Sb	1,000	

CICV Standards – Continuing and Initial Calibration Verification

	CICV Standard [†]		
QCP-CICV-1		Matrix: HNO ₃ Dilution 1:100 or 1:500	
QCP-CICV-1-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	125	Fe	500
Al	1,000	K	2,500
Ba	1,000	Mg	2,500
Ве	25	Mn	250
Ca	2,500	Na	2,500
Со	250	Ni	250
Cr	100	V	250
Cu	125	Zn	250

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

CICV Standard [†]		
QCP-CICV-2 Matrix: HNO ₃ /Tartaric Acid Dilution 1:100 or 1:500		
QCP-CICV-2-125ML	Volume: 125 mL	
Analyte	μg/mL	
Sb	500	

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. For analyses requiring antimony (Sb). Designed to be diluted to working concentrations with QCP-CICV-1 and/or QCP-CICV-3.

CICV Standard [†]				
QCP-CICV-3 Matrix: HNO ₃ Dilution 1:100 or 1:500				
QCP-CICV-3-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte µg/mL		
As	500	Se	500	
Cd	250	TI	500	
Pb	500			

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

[†]Manufactured from in-house Second Source concentrates, whenever possible

CRDL Standards - Contract Required Detection Limit

We can create any CRDL standard to best fit your needs.

Custom solutions are our specialty.



Soil & Water Spike Standards

Spike Standard*				
CLPP-SPK-1		Matrix: HNO ₃ Dilution 1:1,000		
CLPP-SPK-1-125ML		Volume	: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	50	Cu	250	
Al	2,000	Fe	1,000	
Ba	2,000	Mn	500	
Ве	50	Ni	500	
Co	500	V	500	
Cr	200	Zn	500	

^{*}Instructions included.

For use as ICP-OES soil or water spike standard in EPA Contract Laboratory Program (CLP) methods.



Don't see what you need?

Contact us with the solution part number and instrument manufacturer you're seeking, and we'll check our extensive library of solutions.

Interference Check Standards

Interference Check Standard A				
CLPP-ICS-A Matrix: HNO ₃ Dilution 1:10				
CLPP-ICS-A-125ML CLPP-ICS-A-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Al	5,000	Fe	2,000	
Ca	5,000	Mg	5,000	

For use as ICP-OES interference check standard in EPA Contract Laboratory Program (CLP) methods.

Interference Check Standard B4				
CLPP-ICS-B4		Matrix: HNO ₃ Dilution 1:100		
CLPP-ICS-B4-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ag	20	Mn	50	
As	10	Ni	100	
Ba	50	Pb	5	
Be	50	Sb	60	
Cd	100	Se	5	
Co	50	TI	10	
Cr	50	V	50	
Cu	50	Zn	100	

For use as ICP-OES interference check standard in EPA Contract Laboratory Program (CLP) methods.

See individual products for recommended instrumentation and revision. Custom EPA standards are available upon request.

Calibration Standards

Calibration Standard		
CGSB1 Matrix: HNO ₃ /Tartaric Acid Dilution 1:100		
CGSB1-125ML	Volume: 125 mL	
Analyte	μg/mL	
Sb	1,000	

Calibration Standard				
CLPP-CAL-1		Matrix: HNO ₃ Dilution 1:100		
CLPP-CAL-	1-125ML	Volume	: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	250	Fe	1,000	
Al	2,000	K	5,000	
Ba	2,000	Mg	5,000	
Ве	50	Mn	500	
Ca	5,000	Na	5,000	
Co	500	Ni	500	
Cr	200	V	500	
Cu	250	Zn	500	

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard				
CLPP-CAL-3		Matrix: HNO ₃ Dilution 1:100		
CLPP-CAL-3-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte µg/mL		
As	1,000	Se	1,000	
Cd	500	TI	1,000	
Pb	1,000			

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

CICV Standards – Continuing and Initial Calibration Verification

CICV Standard [†]				
QCP-CICV-1		Matrix: HNO ₃ Dilution 1:100 or 1:500		
QCP-CICV-	QCP-CICV-1-125ML		: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	125	Fe	500	
Al	1,000	K	2,500	
Ba	1,000	Mg	2,500	
Ве	25	Mn	250	
Ca	2,500	Na	2,500	
Со	250	Ni	250	
Cr	100	V	250	
Cu	125	Zn	250	

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

CICV Standard [†]		
QCP-CICV-2 Matrix: HNO ₃ /Tartaric Acid		
QCP-CICV-2-125ML	Volume: 125 mL	
Analyte	μg/mL	
Sb	500	

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. For analyses requiring antimony (Sb). Designed to be diluted to working concentrations with QCP-CICV-1 and/or QCP-CICV-3.

CICV Standard [†]				
QCP-CICV-3 Matrix: HNO ₃ Dilution 1:100 or 1:500				
QCP-CICV-3-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte µg/mL		
As	500	Se	500	
Cd	250	TI	500	
Pb	500			

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

[†]Manufactured from in-house Second Source concentrates, whenever possible.

CRQL Standards – Contract Required Quantitation Limit

CRQL Standard				
CLP-AES-CRQL-2		Matrix: HNO ₃ Dilution 1:100 (water samples) 1:500 (soil samples)		
CLP-AES-CF	QL-2-125ML	Volume	: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	1	K	500	
Al	20	Mg	500	
As	1	Mn	1.5	
Ва	20	Na	500	
Ве	0.5	Ni	4	
Ca	500	Pb	1	
Cd	0.5	Sb	6	
Co	5	Se	3.5	
Cr	1	TI	2.5	
Cu	2.5	V	5	
Fe	10	Zn	6	

For use as CRQL (Contract Required Quantitation Limit) ICP standard.

Interference Check Standards

Interference Check Standard A				
CLPP-ICS-A Matrix: HNO ₃ Dilution 1:10				
CLPP-ICS-A-125ML CLPP-ICS-A-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Al	5,000	Fe	2,000	
Ca	5,000	Mg	5,000	

For use as ICP-OES interference check standard in EPA Contract Laboratory Program (CLP) methods.

Interference Check Standard B4				
CLPP-ICS-B4		Matrix: HNO ₃ Dilution 1:100		
CLPP-ICS-	B4-125ML	Volume	e: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	20	Mn	50	
As	10	Ni	100	
Ba	50	Pb	5	
Ве	50	Sb	60	
Cd	100	Se	5	
Co	50	TI	10	
Cr	50	V	50	
Cu	50	Zn	100	

For use as ICP-OES interference check standard in EPA Contract Laboratory Program (CLP) methods.

Soil & Water Spike Standards

Spike Standard				
CLP-MS-SPK		Matrix: HNO ₃ Dilution 1:100		
CLP-MS-SI	PK-125ML	Volume	: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	5	Mn	50	
Al	200	Ni	50	
As	4	Pb	2	
Ba	200	Sb	10	
Ве	5	Se	1	
Cd	5	TI	5	
Co	50	V	50	
Cr	20	Zn	50	
Cu	25			

For use as ICP soil or water spike standard in EPA Contract Laboratory Program (CLP) methods

Spike Standard				
CLPP-SPK-1		Matrix: HNO ₃ Dilution 1:1,000		
CLPP-SPK-	1-125ML	Volume	: 125 mL	
Analyte	μg/mL	Analyte µg/ml		
Ag	50	Cu 250		
Al	2,000	Fe 1,000		
Ва	2,000	Mn 500		
Ве	50	Ni 500		
Co	500	V 500		
Cr	200	Zn	500	

For use as ICP-OES soil or water spike standard in EPA Contract Laboratory Program (CLP) methods

Internal Standards & Tuning Solutions

Internal Standard				
6020ISS Matrix: HNO ₃ Dilution 1:100				
6020ISS-12 6020ISS-50		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte µg/ml		
Bi	10	Rh	10	
Но	10	Sc 10		
In	10	Tb 10		
⁶ Li	10	Υ	10	

Internal standard for ICP-MS in all versions of EPA Method 6020.

Tuning Solution				
2008TS		Matrix: HNO₃ Dilution 1:100 to 1:1,000		
2008TS-12	008TS-125ML		e: 125 mL	
Analyte	μg/mL	Analyte μg/mL		
Ве	10	Mg	10	
Со	10	Pb	10	
In	10			

For use as ICP-MS tuning solution in EPA Method 200.8.

Tuning Solution				
6020TS		Matrix: HNO ₃ Dilution 1:100		
6020TS-12	5ML	Volume: 125 m		
Analyte	μg/mL	Analyte μg/ml		
Co	10	Li 10		
In	10	TI 10		

For use as general tuning solution suitable for numerous ICP-MS designs and models. Covers mass range from Li to TI. Certified reference material that may also be used for calibration.

Blank & Rinse Solutions

Blank & Rinse solutions are prepared using double-distilled reagents and 18 megohm (M Ω) deionized water. They come packaged in ultra-clean LDPE bottles and are ready to use. Custom solutions are available upon request.

2% (v/v) Nitric Acid Rinse			
CLP-MS-RINSE Matrix: HNO ₃			
CLP-MS-RINSE-125ML CLP-MS-RINSE-500ML	Volume: 125 mL Volume: 500 mL		

See pg. 108 for more Blank & Rinse Solution options.

For use as ultra-pure nitric acid ICP rinse or blank solution. Suitable for EPA Contract Laboratory Program (CLP) methods. Manufactured using ultra-high purity HNO3, >18 M Ω deionized water, and packaged in specially cleaned LDPE bottles. Certificate includes trace metal impurity values representative of typical analyses.

200.7 Calibration

Standards for Method 200.7 are designed for use with ICP-0ES. Custom EPA standards are available upon request. Standards are designed for Method 200.7, Method 3120, Method 6010A Rev. 1 and Method 200.7 CLP-M.

Calibration Standard				
CLPP-SPK-2 Matrix: HNO ₃ /Tartaric Acid Dilution 1:100				
CLPP-SPK-2-125ML Volume: 125 mL			ume: 125 mL	
Analyte	μg/mL		λ(nm)	
Sb	500		206.833	

For use as Sb spike standard in EPA Contract Laboratory Program (CLP) methods.

Calibration Standard			
WW-CAL-1A		Matrix: HNO ₃ Dilution 1:100	
WW-CAL-1A-125ML		Volume: 125 mL	
Analyte	μд/	mL	λ(nm)
Ag	5	0	328.068
As	1,000		193.759
В	100		249.678
Ba	100		493.409
Ca	1,000		315.887
Cd	200		226.502
Cu	200		324.754
Mn	200		257.610
Se	50	00	196.090
Sr*	10	00	421.552

For use as ICP-OES calibration standard I in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions

 ${\tt *NOTE:}$ Sr does not exhibit spectral interference problems with any of the EPA Method 200.7 analytes.

Calibration Standard				
WW-CAL-2		Matrix: HNO ₃ / HF Dilution 1:100		
WW-CAL-2-125	ML	Volume: 125 mL		
Analyte	μg/mL λ(nm)		λ(nm)	
K	2,000		766.491	
Li	500		670.784	
Мо	1,000		203.844	
Na	1,000		588.995	
Ti	1,0	00	334.941	

For use as ICP-0ES calibration standard II in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard				
WW-CAL-3		Matrix: HNO ₃ Dilution 1:100		
WW-CAL-3-125	5ML Volume: 125 mL		ume: 125 mL	
Analyte	μg/mL		λ(nm)	
Се	200		413.765	
Со	200		228.616	
Р	1,000		214.914	
V	20	00	292.402	

For use as ICP-OES calibration standard III in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

200.7 Calibration

Calibration Standard				
WW-CAL-4A		Matrix: HNO ₃ Dilution 1:100		
WW-CAL-4A-12	Volume: 125 mL		ume: 125 mL	
Analyte	μg/mL		λ (nm)	
Al	1,000		308.215	
Cr	500		205.552	
Hg	200		194.227	
Zn	50	00	213.856	

For use as ICP-OES calibration standard IV (Part A) in EPA Method 200.7. Designed to be mixed with WW-CAL-4B at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard				
WW-CAL-4B Matrix: HNO ₃ / HF Dilution 1:100			rix: HNO ₃ / HF ilution 1:100	
WW-CAL-4B-125ML		Volume: 125 mL		
Analyte	μg/mL		λ(nm)	
SiO ₂	1,000		251.611	
Sn	40	00	189.980	

For use as ICP-OES calibration standard IV (Part B) in EPA Method 200.7. Designed to be mixed with WW-CAL-4A at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard				
			atrix: HNO ₃ ution 1:100	
WW-CAL-5-125MI	_	Volume: 125 mL		
Analyte	μg/mL		λ(nm)	
Be	100		313.042	
Fe	1,000		259.940	
Mg	1,000		279.079	
Ni	200		231.604	
Pb	1,000		220.353	
TI		500	190.864	

For use as ICP-0ES calibration standard V in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

200.7 Interference Checks

Interference Check Standard			
CGSB1	Matrix: HNO ₃ /Tartaric Acid Dilution 1:100		
CGSB1-125ML	Volume: 125 mL		
Analyte	μg/mL		
Sb	1,000		

Interference Check Standard				
2007ICS-1 Matrix: HNO ₃ / HF Dilution 1:100			NO ₃ / HF n 1:100	
2007ICS-1-	2007ICS-1-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte µg/mL		
В	500	Si 230		
Мо	300	Ti	1,000	

For use as ICP-OES interference check standard in EPA Method 200.7.

Interference Check Standard				
2007ICS-3	2007ICS-3		Matrix: HNO ₃ Dilution 1:100	
2007ICS-3	-125ML	Volume:	125 mL	
Analyte	μg/mL	Analyte µg/ml		
Ag	300	K	20,000	
As	1,000	Mn	200	
Ва	300	Ni 300		
Ве	100	Pb 1,000		
Cd	300	Se 500		
Co	300	TI 1,000		
Cr	300	V	300	
Cu	300	Zn	300	

For use as ICP-OES interference check standard in EPA Method 200.7.

Interference Check Standard				
2007ICS-4 Matrix: HNO Dilution 1:50				
2007ICS-4	2007ICS-4-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte µg/mL		
Al	3,000	Mg	7,500	
Ca	15,000	Na	2,500	
Fe	12,500			

For use as ICP-OES interference check standard in EPA Method 200.7.

200.7 Quality Controls

Quality Control Standard [†]			
QCP-QCS-1		Matrix: HNO ₃ Dilution 1:100	
QCP-QCS-1-125ML		Vo	lume: 125 mL
Analyte	μg/	mL	λ(nm)
Ag	2	5	328.068
Al	10	00	308.215
As	20	00	193.759
В	10	00	249.678
Ba	10	00	493.409
Ве	10	00	313.042
Ca	10	00	315.887
Cd	10	00	226.502
Ce	10	00	413.765
Co	10	00	228.616
Cr	100		205.552
Cu	100		324.754
Fe	100		259.940
Hg	200		194.227
K	50	00	766.491
Li	100		670.784
Mg	100		279.079
Mn	10	00	257.610
Na	10	00	588.995
Ni	10	00	231.604
P	50	00	214.914
Pb	20	00	220.353
Se	10	00	196.090
Sr	10	00	421.552
TI	50	00	190.864
V	10	00	292.402
Zn	10	00	213.856

211	100	213.030
For use as ICP-OES Based upon Revisio versions.	• • • • • • • • • • • • • • • • • • • •	

Quality Control Standard [†]			
QCP-QCS-2	Matrix: HNO ₃ / HF Dilution 1:100		c: HNO ₃ / HF tion 1:100
QCP-QCS-2-125M	L	Volume: 125 mL	
Analyte	μg/mL		λ(nm)
Мо		100	203.844
Sb	200		206.833
SiO ₂	500		251.611
Sn	500		189.980
Ti		100	334.941

For use as ICP-OES QC standard in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Quality Control Standard [†]			
IV-7		Matrix: HNO ₃ / HF Dilution 1:100	
IV-7-125MI	-	Volume: 125 mL	
Analyte	μg/mL	Analyte µg/mL	
Ag	100	K	1,000
Al	100	Na	100
В	100	Si 50	
Ba	100		

For use as a certified reference standard in ICP applications. Can be diluted with other standards to working concentrations.

Don't see what you need?

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†Manufactured from in-house Second Source concentrates, whenever possible.

200.7 Quality Controls

For use as a certified reference standard in ICP applications. Can be diluted with other standards to working concentrations.

Quality Control Standard [†]			
IV-19		Matrix: HNO ₃ / HF Dilution 1:100	
IV-19-125M	IL	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
As	100	Мо	100
Ве	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb 100	
Co	100	Se	100
Cr	100	Ti	100
Cu	100	TI	100
Fe	100	V	100
Mg	100	Zn	100
Mn	100		

Quality Control Standard [†]			
IV-21		Matrix: HNO ₃ / HF Dilution 1:100	
IV-21-125N	IL	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
As	100	Мо	100
Ве	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb	100
Co	100	Se	100
Cr	100	Sr	100
Cu	100	Ti	100
Fe	100	TI	100
Li	100	V	100
Mg	100	Zn	100
Mn	100		

Quality Control Standard [†]				
IV-26		Matrix: HNO ₃ / HF Dilution 1:100		
IV-26-125N IV-26-500N			125 mL 500 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	100	Mg	100	
Al	100	Mn	100	
As	100	Мо	100	
В	100	Na	100	
Ba	100	Ni	100	
Ве	100	Pb	100	
Ca	100	Sb	100	
Cd	100	Se	100	
Co	100	Si	50	
Cr	100	Ti	100	
Cu	100	TI	100	
Fe	100	V	100	
K	1,000	Zn	100	

Quality Control Standard [†]				
IV-28		Matrix: HNO ₃ / HF Dilution 1:100		
IV-28-125M IV-28-500M		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ag	100	Mg	100	
Al	100	Mn	100	
As	100	Мо	100	
В	100	Na	100	
Ba	100	Ni	100	
Ве	100	Pb	100	
Ca	100	Sb	100	
Cd	100	Se	100	
Co	100	Si	50	
Cr	100	Sr	100	
Cu	100	Ti	100	
Fe	100	TI	100	
K	1,000	V	100	
Li	100	Zn	100	

[†]Manufactured from in-house Second Source concentrates, whenever possible.

Rev. 3.3 & 4.4 Calibrations – Standards may be used for either revision.

Calibration Standard				
CLPP-SPK-2		Matrix: HNO ₃ /Tartaric Acid Dilution 1:100		
CLPP-SPK-2-125ML		Volume: 125 mL		
Analyte	μg/mL		λ(nm)	
Sb	500		206.833	

For use as Sb spike standard in EPA Contract Laboratory Program (CLP) methods.

Calibration Standard				
WW-CAL-1A		Matrix: HNO ₃ Dilution 1:100		
WW-CAL-1A-125ML		Volume: 125 mL		
Analyte	µg/	mL	λ(nm)	
Ag	5	0	328.068	
As	1,000		193.759	
В	100		249.678	
Ba	10	00	493.409	
Ca	1,000		315.887	
Cd	200		226.502	
Cu	200		324.754	
Mn	200		257.610	
Se	500		196.090	
Sr	10	00	421.552	

NOTE: Sr does not exhibit spectral interference problems with any of the EPA Method 200.7 analytes

For use as ICP-OES calibration standard I in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard				
WW-CAL-2 Matrix: HNO ₃ / Dilution 1:10			trix: HNO3 / HF ilution 1:100	
WW-CAL-2-125	ML	ML Volume: 125 mL		
Analyte	μg/mL		λ(nm)	
K	2,000		766.491	
Li	500		670.784	
Мо	1,000		203.844	
Na	1,000		588.995	
Ti	1,0	000	334.941	

For use as ICP-OES calibration standard II in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard				
WW-CAL-3		Matrix: HNO ₃ Dilution 1:100		
WW-CAL-3-125ML		Volume: 125 mL		
Analyte	μg/	mL	λ(nm)	
Ce	200		413.765	
Со	200		228.616	
Р	1,000		214.914	
V	20	00	292.402	

For use as ICP-OES calibration standard III in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard				
WW-CAL-4A		Matrix: HNO₃ Dilution 1:100		
WW-CAL-4A-125ML		Volume: 125 mL		
Analyte	µg/	mL	λ(nm)	
Al	1,000		308.215	
Cr	500		205.552	
Hg	200		194.227	
Zn	50	00	213.856	

For use as ICP-OES calibration standard IV (Part A) in EPA Method 200.7. Designed to be mixed with WW-CAL-4B at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard				
WW-CAL-4B Matrix: HNO ₃ / HF Dilution 1:100			rix: HNO ₃ / HF ilution 1:100	
WW-CAL-4B-125ML		Volume: 125 mL		
Analyte	μg/mL		λ(nm)	
SiO ₂	1,000		251.611	
Sn	400		189.980	

For use as ICP-OES calibration standard IV (Part B) in EPA Method 200.7. Designed to be mixed with WW-CAL-4A at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Rev. 3.3 & 4.4 Calibrations – Standards may be used for either revision.

Calibration Standard				
WW-CAL-5		Matrix: HNO ₃ Dilution 1:100		
WW-CAL-5-125	5ML Volume: 125 mL			
Analyte	μg/mL		λ(nm)	
Be	10	00	313.042	
Fe	1,000		259.940	
Mg	1,000		279.079	
Ni	200		231.604	
Pb	1,000		220.353	
TI	50	00	190.864	

For use as ICP-OES calibration standard V in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Rev. 3.3 & 4.4 Instrument Performance
Checks – Standards may be used for either revision.

Instrum	ent Perf	ormano	e Check	
WW-IPC-1	WW-IPC-1		Matrix: HNO ₃ Dilution 1:100	
WW-IPC-1-125N	ИL	Vol	ume: 125 mL	
Analyte	μg/	mL	λ (nm)	
Ag	2	5	328.068	
Al	20	00	308.215	
As	20	00	193.759	
В	20	00	249.678	
Ва	20	00	493.409	
Ве	20	00	313.042	
Ca	20	00	315.887	
Cd	20	00	226.502	
Ce	20	00	413.765	
Со	20	00	228.616	
Cr	200		205.552	
Cu	200		324.754	
Fe	200		259.940	
Hg	200		194.227	
K	1,000		766.491	
Li	200		670.784	
Mg	20	00	279.079	
Mn	20	00	257.610	
Na	20	00	588.995	
Ni	20	00	231.604	
P	1,0	00	214.914	
Pb	200		220.353	
Se	20	00	196.090	
Sr	200		421.552	
TI	200		190.864	
V	200		292.402	
Zn	20	00	213.856	

Performance Check solution for EPA Method 200.7. Designed to be mixed with WW-IPC-2 at working concentrations. Based upon Revision 4.4 and suitable for all 200.7 versions.

Instrument Performance Check				
WW-IPC-2		Matrix: HNO ₃ / HF Dilution 1:100		
WW-IPC-2-125N	25ML Volume: 125 mL			
Analyte	µд/	mL	λ(nm)	
Мо	200		203.844	
Sb	200		206.833	
SiO ₂	1,0	00	251.611	
Sn	200		189.980	
Ti	20	00	334.941	

Performance Check solution for EPA Method 200.7. Designed to be mixed with WW-IPC-1 or WW-IPC-3 at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions

Instrument Performance Check			
WW-IPC-3	Matrix: HNO ₃ Dilution 1:100		1atrix: HNO ₃ ilution 1:100
WW-IPC-3-125	ИL	Vol	ume: 125 mL
Analyte	μg/	mL	λ(nm)
Ag	2	5	328.068
Al	20	0	308.215
As	20	0	193.759
В	20	0	249.678
Ba	20	0	493.409
Be	20	0	313.042
Ca	20	0	315.887
Cd	20	0	226.502
Co	20	0	228.616
Cr	20	0	205.552
Cu	200		324.754
Fe	200		259.940
K	1,000		766.491
Li	200		670.784
Mg	200		279.079
Mn	20	0	257.610
Na	20	0	588.995
Ni	20	0	231.604
Р	1,0	00	214.914
Pb	20	0	220.353
Se	200		196.090
Sr	200		421.552
TI	200		190.864
V	20	10	292.402
Zn	20	0	213.856
Parformance Charles calution for EDA Mathed 200.7			

Performance Check solution for EPA Method 200.7.
Designed to be mixed with WW-IPC-2 at working concentrations. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.



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Transpiration Control Technology (TCT)

Based on years of study and data evaluation, we improved the way we deliver our quality products. **inorganicventures.com/tct**.

Rev. 3.3 & 4.4 Laboratory Fortified Stocks – Standards may be used for either revision.

Laborator	y Fortifi	ed Stoc	k Solution
WW-LFS-1		Matrix: HNO 3 Dilution 1:100	
WW-LFS-1-125M	WW-LFS-1-125ML		ume: 125 mL
Analyte	μg/	mL	λ(nm)
Ag	7.	.5	328.068
Al	20	00	308.215
As	8	0	193.759
В	3	0	249.678
Ba	2	0	493.409
Be	2	0	313.042
Ca	10	00	315.887
Cd	2	0	226.502
Ce	20	00	413.765
Со	2	0	228.616
Cr	4	0	205.552
Cu	3	0	324.754
Fe	30	00	259.940
Hg	7	0	194.227
K	1,0	00	766.491
Li	2	0	670.784
Mg	20	00	279.079
Mn	2	0	257.610
Na	30	00	588.995
Ni	5	0	231.604
Р	600		214.914
Pb	100 220.35		220.353
Se	20	00	196.090
Sr	2	0	421.552
TI	20	00	190.864
V	3	0	292.402
Zn	2	0	213.856

Laboratory Fortified Stock Solution for EPA Method 200.7. Designed to be mixed with WW-LFS-2 at working concentrations. Suitable for use with all 200.7 versions.

Laboratory Fortified Stock Solution			
WW-LFS-2		Matrix: HNO ₃ / HF Dilution 1:100	
WW-LFS-2-125	Volume: 125 mL		ume: 125 mL
Analyte	μg/mL		λ(nm)
Мо	40		203.844
Sb	80		206.833
SiO ₂	200		251.611
Sn	70		189.980
Ti	2	0	334.941

Laboratory Fortified Stock Solution for EPA Method 200.7. Designed to be mixed with WW-LFS-1 at working concentrations. Suitable for use with all 200.7 versions.

Rev. 3.3 & 4.4 Quality Controls - Standards may be used for either revision.

Quality Control Standard [†]				
QCP-QCS-1	QCP-QCS-1		Matrix: HNO ₃ Dilution 1:100	
QCP-QCS-1-125	QCP-QCS-1-125ML		lume: 125 mL	
Analyte	μд/	mL	λ (nm)	
Ag	2	5	328.068	
Al	10	00	308.215	
As	20	00	193.759	
В	10	00	249.678	
Ba	10	00	493.409	
Be	10	00	313.042	
Ca	10	00	315.887	
Cd	10	00	226.502	
Ce	10	00	413.765	
Со	10	00	228.616	
Cr	10	00	205.552	
Cu	10	00	324.754	
Fe	10	00	259.940	
Hg	20	00	194.227	
K	50	00	766.491	
Li	10	00	670.784	
Mg	10	00	279.079	
Mn	10	00	257.610	
Na	10	00	588.995	
Ni	10	00	231.604	
Р	50	00	214.914	
Pb	20	00	220.353	
Se	10	00	196.090	
Sr	10	00	421.552	
TI	50	00	190.864	
V	10	00	292.402	
Zn	10	00	213.856	

For use as ICP-OES QC standard in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Quality Control Standard [†]			
QCP-QCS-2		Matrix: HNO ₃ / HF Dilution 1:100	
QCP-QCS-2-125	ML Volume: 125 mL		lume: 125 mL
Analyte	μg/	mL	λ (nm)
Мо	10	00	203.844
Sb	200		206.833
SiO ₂	500		251.611
Sn	500		189.980
Ti	10	00	334.941

For use as ICP-OES QC standard in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Quality Control Standard [†]			
IV-7		Matrix: HNO ₃ / HF Dilution 1:100	
IV-7-125MI	-	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Ag	100	K	1,000
Al	100	Na	100
В	100	Si	50
Ba	100		

For use as a certified reference standard in ICP applications. Can be diluted with other standards to working concentrations.

 $[\]verb|TManufactured| from in-house Second Source concentrates, whenever possible.$

Rev. 3.3 & 4.4 Quality Controls — Standards may be used for either revision.

For use as a certified reference standard in ICP applications. Can be diluted with other standards to working concentrations.

Quality Control Standard [†]			
IV-19		Matrix: HNO ₃ / HF Dilution 1:100	
IV-19-125M	IL	Volume	: 125 mL
Analyte	μg/mL	Analyte	μg/mL
As	100	Мо	100
Ве	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb	100
Co	100	Se	100
Cr	100	Ti	100
Cu	100	TI	100
Fe	100	V	100
Mg	100	Zn	100
Mn	100		

Quality Control Standard [†]			
IV-21		Matrix: HNO ₃ / HF Dilution 1:100	
IV-21-125N	IL	Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
As	100	Мо	100
Ве	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb	100
Co	100	Se	100
Cr	100	Sr	100
Cu	100	Ti	100
Fe	100	TI	100
Li	100	V	100
Mg	100	Zn	100
Mn	100		

Ovality Control Standardt			
Ų	Quality Control Standard [†]		
IV-26	IV-26		INO ₃ / HF n 1:100
IV-26-125N IV-26-500N			125 mL 500 mL
Analyte	μg/mL	Analyte	μg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Мо	100
В	100	Na	100
Ba	100	Ni	100
Ве	100	Pb	100
Ca	100	Sb	100
Cd	100	Se	100
Co	100	Si	50
Cr	100	Ti	100
Cu	100	TI	100
Fe	100	V	100
K	1,000	Zn	100

Quality Control Standard [†]			
IV-28		Matrix: HNO ₃ / HF Dilution 1:100	
IV-28-125M IV-28-500M			125 mL 500 mL
Analyte	μg/mL	Analyte	μg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Мо	100
В	100	Na	100
Ва	100	Ni	100
Ве	100	Pb	100
Ca	100	Sb	100
Cd	100	Se	100
Co	100	Si	50
Cr	100	Sr	100
Cu	100	Ti	100
Fe	100	TI	100
K	1,000	V	100
Li	100	Zn	100

 $[\]verb|+Manufactured| from in-house Second Source concentrates, whenever possible.$

Standards for Method 200.8 are designed for use with ICP-MS. Custom EPA standards are available upon request.

Rev. 4.4 & 5.4 Calibration – See individual products for recommended revisions.

Calibration Standard			
2008CAL-1 Matrix: HNO ₃ / HF Dilution 1:100			NO₃ / HF n 1:100
2008CAL-1-125ML		Volume:	125 mL
Analyte	μg/mL	Analyte	μg/mL
Мо	20	Sb	20

Designed for Rev. 4.4 and 5.4.

For use as ICP-MS calibration standard in EPA Method 200 8

	Calibration Standard		
2008CAL-2		Matrix: HNO ₃ Dilution 1:100	
2008CAL-2 2008CAL-2		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	20	Mn	20
Al	20	Ni	20
As	20	Pb	20
Ba	20	Se	20
Ве	20	Th	20
Cd	20	TI	20
Co	20	U	20
Cr	20	V	20
Cu	20	Zn	20

Designed for Rev. 4.4.

For use as ICP-MS calibration standard in EPA Method 200.8.

Calibration Standard		
WW-MSCAL-1 Matrix: HNO ₃ Dilution 1:1,000		
WW-MSCAL-1-125ML Volume: 125 m		
Analyte	μg/mL	
Hg	5	

Designed for Rev. 5.4.

For use as ICP-MS calibration standard in EPA Method 200.8. Can be combined with WW-MSCAL-2 at working concentrations if Au is used to stabilize Hg. Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Calibration Standard				
WW-MSCAL-2		Matrix: HNO₃ Dilution 1:100		
WW-MSCAL-2-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ag	20	Mn	20	
Al	20	Ni	20	
As	20	Pb	20	
Ва	20	Se	100	
Ве	20	Th	20	
Cd	20	TI	20	
Co	20	U	20	
Cr	20	V	20	
Cu	20	Zn	20	

Designed for Rev. 5.4.

For use as ICP-MS calibration standard in EPA Method 200.8. Uranium is isotopically depleted. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Standards for Method 200.8 are designed for use with ICP-MS. Custom EPA standards are available upon request.

Rev. 4.4 & 5.4 Calibration – See individual products for recommended revisions.

Mercury Standard			
MSHG-1PPM Matrix: HCI			
MSHG-1PPM-125ML MSHG-1PPM-500ML	Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL		
Hg	1		

Mercury Standard			
IV-STOCK-73 Matrix: 10% v/v HCl			
IV-STOCK-73-125ML	Volume: 125 mL		
Analyte	μg/L*		
Hg 100			

Mercury Standard			
IV-STOCK-72 Matrix: 7% v/v HNO ₃			
IV-STOCK-72-125ML	Volume: 125 mL		
Analyte	μg/L*		
Hg 100			

^{*}Parts per billion

Rev. 4.4 & 5.4 Internal Standards

Internal Standard				
2008ISS Matrix: HN Dilution 1:100 to		: HNO ₃)0 to 1:1,000		
2008ISS-125ML 2008ISS-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Bi	20	Tb	20	
In	20	Υ	20	
Sc	20			

Designed for Rev. 4.4 and 5.4. Recommended working level is 200 $\mu g/L$ for Rev. 4.4; 20-200 $\mu g/L$ for Rev. 5.4. Use this solution with CGAUN1 for Rev. 5.4 if Hg is to be determined by direct analysis.

Mercury Preservation Solution			
CGAUN1	Matrix: HNO ₃ Dilution 1:100		
CGAUN1-30ML CGAUN1-125ML CGAUN1-500ML	Volume: 30 mL Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL		
Au 1,000			

Designed for Rev. 5.4. Add an aliquot of this solution to 2008ISS, sufficient to provide a concentration of 100 $\mu g/L$ in the final dilution of all blanks, calibration standards, and samples.

Rev. 4.4 & 5.4 Quality Controls

Quality Control Standard [†]				
QCP-QCS-3		Matrix: HNO ₃ Dilution 1:100		
QCP-QCS-3-125ML QCP-QCS-3-500ML		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ag	10	Mn	10	
Al	10	Мо	10	
As	10	Na	10	
Ba	10	Ni	10	
Ве	10	Pb	10	
Ca	10	Sb	10	
Cd	10	Se	50	
Co	10	Th	10	
Cr	10	TI	10	
Cu	10	U	10	
Fe	10	V	10	
K	10	Zn	10	
Mg	10			

Designed for Rev. 4.4 and 5.4.

For use as ICP-MS quality control standard in EPA Method 200.8. Uranium is isotopically depleted. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Quality Control Standard [†]			
QCP-QCS-4 Matrix: HNO ₃ Dilution 1:100			
QCP-QCS-4-125ML	Volume: 125 mL		
Analyte	μg/mL		
Hg	5		

Designed for Rev. 4.4 and 5.4.

For use as ICP-MS mercury (Hg) quality control standard in EPA Method 200.8. Can be combined with QCP-QCS-3 at working concentrations if Au is used to stabilize Hg, though trace chloride from Au may cause Ag stability problems. Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions, and the Silver Chemical Stability article for more information about Ag stability in the presence of chloride.

†Manufactured from in-house Second Source concentrates, whenever possible.

Rev. 4.4 & 5.4 Tuning

Tuning Solution				
2008TS Matrix: HNO ₃ Dilution 1:100 to 1:1,00		c: HNO ₃ 00 to 1:1,000		
2008TS-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Be	10	Mg	10	
Со	10	Pb	10	
In	10			

Designed for Rev. 4.4 and 5.4.

For use as ICP-MS tuning solution in EPA Method 200.8.

For use in EPA Toxicity Characteristic Leachate Procedure (TCLP). Custom EPA standards are available upon request.

TCLP Hg Standard		
TCLP-AA-HG Matrix: HNO ₃ Dilution: As required		
TCLP-AA-HG-125ML	Volume: 125 mL	
Analyte	μg/mL	
Hg	20	

For use in EPA Toxicity Characteristic Leachate Procedure (TCLP).

TCLP Standard				
TCLP-1REV		Matrix: HNO ₃ Dilution: As required		
TCLP-1REV-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ag	25	Cr	25	
As	25	Pb	25	
Ba	500	Se	5	
Cd	5			

For use in EPA Toxicity Characteristic Leachate Procedure (TCLP).

Don't see what you need?

Contact us with the solution part number and instrument manufacturer you're seeking, and we'll check our extensive library of solutions.



Standards for Method 6020 are designed for use with ICP-MS. Custom EPA standards are available upon request.

CLP-M Version 8

Calibration Standard				
6020CAL-1		Matrix: HNO ₃ / HF Dilution 1:100		
6020CAL-1-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ag	20	K	20	
Al	20	Mg	20	
As	20	Mn	20	
Ва	20	Na	20	
Ве	20	Ni	20	
Ca	20	Pb	20	
Cd	20	Sb	20	
Co	20	Se	20	
Cr	20	TI	20	
Cu	20	V	20	
Fe	20	Zn	20	

For use as ICP-MS calibration standard in EPA Method 6020. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Interference Check Standard				
6020ICS-8A Matrix: HNO ₃ Dilution 1:10				
	020ICS-8A-125ML Volume: 125 ml 020ICS-8A-500ML Volume: 500 m			
Analyte	μg/mL	Analyte	μg/mL	
Al	1,000	Mg	1,000	
С	2,000	Мо	20	
Ca	3,000	Na	2,500	
CI-	18,000	Р	1,000	
Fe	2,500	S	1,000	
K	1,000	Ti	20	

For evaluating ICP-MS interferences and corrections in EPA Method 6020A or 6020B. Based upon 6020A Revision 1 Solution A.

Internal Standard			
6020ISS Matrix: HNO ₃ Dilution 1:100			
	5020ISS-125ML Volume: 125 ml 5020ISS-500ML Volume: 500 ml		
Analyte	μg/mL	Analyte	μg/mL
Bi	10	Rh	10
Но	10	Sc 10	
In	10	Tb	10
⁶ Li	10	Υ	10

Internal standard for ICP-MS in all versions of EPA Method 6020.

Spike Standard - Soil			
6020SPK-S			: HNO ₃ n 1:100
6020SPK-	5020SPK-S-125ML		: 125 mL
Analyte	μg/mL	Analyte	μg/mL
Ag	10	Ni	25
As	10	Pb	20
Ba	50	Sb	20
Ве	5	Se	5
Cd	10	TI	5
Co	20	V	30
Cr	50	Zn	50
Cu	50		

Matrix spike for solid samples.

Standards for Method 6020 are designed for use with ICP-MS. Custom EPA standards are available upon request.

CLP-M Version 8

Spike Standard – Water			
6020SPK-W		Matrix: HNO ₃ Dilution 1:100	
6020SPK-W-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	5	Mn	20
As	10	Ni	20
Ba	50	Pb	10
Ве	5	Sb	20
Cd	5	Se	5
Co	20	TI	5
Cr	20	V	20
Cu	20	Zn	50
Fe	100		

Matrix spike for aqueous samples.

Tuning Solution Matrix: HNO, 6020TS Dilution 1:100 6020TS-125ML Volume: 125 mL **Analyte** μg/mL **Analyte** μg/mL Co 10 Li 10 ΤI In 10 10

For use as general tuning solution suitable for numerous ICP-MS designs and models. Covers mass range from Li to TI. Certified reference material that may also be used for calibration.

CLP-M Version 9

Calibration Standard			
6020CAL-1		Matrix: HNO ₃ / HF Dilution 1:100	
6020CAL-1-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	20	K	20
Al	20	Mg	20
As	20	Mn	20
Ba	20	Na	20
Ве	20	Ni	20
Ca	20	Pb	20
Cd	20	Sb	20
Со	20	Se	20
Cr	20	TI	20
Cu	20	V	20
Fe	20	Zn	20

For use as ICP-MS calibration standard in EPA Method 6020. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Interference Check Standard				
6020ICS-9A Matrix: HNO ₃ Dilution 1:10				
6020ICS-9/		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Al	1,000	Mg	1,000	
С	2,000	Мо	20	
Ca	3,000	Na	2,500	
CI-	21,215	P	1,000	
Fe	2,500	S	1,000	
K	1,000	Ti	20	

For evaluating ICP-MS interferences and corrections in EPA Method 6020A or 6020B. Based upon 6020A Revision 1 Solution A. Suitable for analyses with higher chloride contents.

Interference Check Standard				
6020ICS-9B		Matrix: HNO ₃ Dilution 1:100		
6020ICS-9B-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Ag	5	Mn	20	
As	10	Ni	20	
Cd	10	Se	10	
Co	20	V	20	
Cr	20	Zn	10	
Cu	20			

For evaluating ICP-MS interferences and corrections in EPA Method 6020A or 6020B. Based upon 6020A Revision 1 Solution B. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Internal Standard				
6020ISS		Matrix: HNO₃ Dilution 1:100		
6020ISS-12 6020ISS-50		Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	Analyte	μg/mL	
Bi	10	Rh	10	
Но	10	Sc 10		
In	10	Tb	10	
⁶ Li	10	Υ	10	

Internal standard for ICP-MS in all versions of EPA Method 6020.

Spike Standard – Soil			
6020SPK-S		Matrix: HNO ₃ Dilution 1:100	
6020SPK-S	5-125ML	Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	10	Ni	25
As	10	Pb	20
Ва	50	Sb	20
Ве	5	Se	5
Cd	10	TI	5
Co	20	V	30
Cr	50	Zn	50
Cu	50		

Matrix spike for solid samples.

	Spike Standard – Water			
6020SPK-W		Matrix: HNO ₃ Dilution 1:100		
6020SPK-\	6020SPK-W-125ML		125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	5	Mn	20	
As	10	Ni	20	
Ва	50	Pb	10	
Ве	5	Sb	20	
Cd	5	Se	5	
Co	20	TI	5	
Cr	20	V	20	
Cu	20	Zn	50	
Fe	100			

Matrix spike for aqueous samples.

Tuning Solution				
6020TS Matrix: HNO ₃ Dilution 1:100			: HNO ₃ n 1:100	
6020TS-125ML		Volume: 125 mL		
Analyte	μg/mL	Analyte	μg/mL	
Co	10	Li 10		
In	10	TI	10	

For use as general tuning solution suitable for numerous ICP-MS designs and models. Covers mass range from Li to TI. Certified reference material that may also be used for calibration.

REV. 0

Calibration Standard			
6020CAL-1		Matrix: HNO ₃ / HF Dilution 1:100	
6020CAL-1-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ag	20	K	20
Al	20	Mg	20
As	20	Mn	20
Ba	20	Na	20
Ве	20	Ni	20
Ca	20	Pb	20
Cd	20	Sb	20
Co	20	Se	20
Cr	20	TI	20
Cu	20	V	20
Fe	20	Zn	20

For use as ICP-MS calibration standard in EPA Method 6020. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Internal Standard					
6020ISS Matrix: HNO ₃ Dilution 1:100					
6020ISS-125ML 6020ISS-500ML		Volume: 125 mL Volume: 500 mL			
Analyte	μg/mL	Analyte µg/mL			
Bi	10	Rh 10			
Но	10	Sc 10			
In	10	Tb 10			
⁶ Li	10	Υ	10		

Internal standard for ICP-MS in all versions of EPA Method 6020.

Interference Check Standard					
6020ICS-0A Matrix: HNO ₃ Dilution 1:10					
	6020ICS-0A-125ML 6020ICS-0A-500ML		125 mL 500 mL		
Analyte	μg/mL	Analyte µg/m			
Al	1,000	Mg 1,000			
С	2,000	Mo 20			
Ca	1,000	Na 1,000			
CI-	10,000	P 1,000			
Fe	1,000	S 1,000			
K	1,000	Ti	20		

For evaluating ICP-MS interferences and corrections in EPA Method 6020. Based upon Revision 0 Solution A.

Interference Check Standard					
6020ICS-0	6020ICS-0B Matrix: HNO ₃ Dilution 1:100				
6020ICS-0B-125ML		Volume: 125 mL			
Analyte	μg/mL	Analyte μg/mL			
Ag	2	Cu	2		
As	2	Mn 2			
Cd	2	Ni 2			
Co	2	Zn 2			
Cr	2				

For evaluating ICP-MS interferences and corrections in EPA Method 6020. Based upon Revision 0 Solution B.

Spike Standard – Soil					
6020SPK-S Matrix: HNO ₃ Dilution 1:100					
6020SPK-S	6020SPK-S-125ML		125 mL		
Analyte	μg/mL	Analyte µg/ml			
Ag	10	Ni 25			
As	10	Pb 20			
Ba	50	Sb 20			
Ве	5	Se 5			
Cd	10	TI 5			
Co	20	V 30			
Cr	50	Zn	50		
Cu	50				

Matrix spike for solid samples.

REV. 0

Spike Standard – Water				
6020SPK-W		Matrix: HNO ₃ Dilution 1:100		
6020SPK-V	V-125ML	Volume	: 125 mL	
Analyte	μg/mL	Analyte	μg/mL	
Ag	5	Mn	20	
As	10	Ni	20	
Ва	50	Pb	10	
Ве	5	Sb 20		
Cd	5	Se	5	
Co	20	TI	5	
Cr	20	V	20	
Cu	20	Zn	50	
Fe	100			

Matrix spike for aqueous samples.

Tuning Solution					
6020TS Matrix: HNO ₃ Dilution 1:100					
6020TS-12	5ML	Volume: 125 mL			
Analyte	μg/mL	Analyte µg/mL			
Co	10	Li 10			
In	10	TI	10		

For use as general tuning solution suitable for numerous ICP-MS designs and models. Covers mass range from Li to TI. Certified reference material that may also be used for calibration.



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ION CHROMATOGRAPHY

If you've been searching for an atypical Ion Chromatography standard, look no further.

Over the years, we've developed the most complete line of IC standards on the market. Our technicians have stabilized more than a dozen rare anion and cation standards thatyou won't find anywhere else.



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- ✓ Up to five-year shelf life
- ✓ Traceable to NIST SRMs
- ✓ Produced under ISO 9001
- ✓ Produced under ISO 17025
- ✓ Produced under ISO 17034
- Assayed by validated Wet Chemical procedures
- Assayed by validated IC procedures

ANION STANDARDS

Custom anion standards are available upon request.

1,000 μg/mL

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ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Acetate, C ₂ H ₃ O ₂ -	H ₂ 0	Sodium acetate	125 mL 500 mL	ICOAC1-125ML ICOAC1-500ML
Adipate, C ₆ H ₈ O ₄ - ²	H_2^0	Adipic acid	125 mL	ICADP1-125ML
Benzoate, C ₆ H ₅ CO ₂ -	H_2^0	Benzoic acid	125 mL	ICBEN1-125ML
Bromate, BrO ₃ -	H ₂ 0	KBrO ₃	125 mL 500 mL	ICBR031-125ML ICBR031-500ML
Bromide, Br-	H ₂ 0	KBr	125 mL 500 mL	ICBR1-125ML ICBR1-500ML
Butyrate, C ₄ H ₇ O ₂ -	H ₂ O	Butyric acid	125 mL	ICBTR1-125ML
Carbonate, CO ₃ - ²	H ₂ 0	Na_2CO_3	125 mL 500 mL	ICCO31-125ML ICCO31-500ML
Chlorate, CIO ₃ -	H ₂ 0	KCIO ₃	125 mL 500 mL	ICCL031-125ML ICCL031-500ML
Chloride, CI-	H ₂ 0	KCI	125 mL 500 mL	ICCL1-125ML ICCL1-500ML
Chlorite, CIO ₂ -	H ₂ 0	$NaClO_2$	125 mL 500 mL	ICCL021-125ML ICCL021-500ML
Chromate, CrO ₄ -2	H_2^0	$(NH_4)_2 Cr_2O_7$	125 mL	ICCRO41-125ML
Citrate, C ₆ H ₅ O ₇ -3	H ₂ 0	Citric acid	125 mL 500 mL	ICCIT1-125ML ICCIT1-500ML
Cyanide, NaCN	H_2^0	Sodium cyanide	20 mL	CN-1000-25-20ML
Fluoride, F-	H ₂ 0	NaF	125 mL 500 mL	ICF1-125ML ICF1-500ML
Formate, HCO ₂ -	H ₂ 0	Sodium formate	125 mL 500 mL	ICHCO1-125ML ICHCO1-500ML
Glutarate, C ₅ H ₆ O ₄ - ²	H_2^0	Glutaric acid	125 mL	ICGTR1-125ML
Glycolate, C ₂ H ₃ O ₃ -	H_2^0	Glycolic acid	125 mL	ICGLY1-125ML
lodide, I-	H ₂ 0 / stabilizer	$NH_{4}I$	125 mL 500 mL	ICI1-125ML ICI1-500ML
Lactate, C ₃ H ₅ O ₃ -	H_2^0	Lactic acid	125 mL	ICLCT1-125ML
Malate, C ₄ H ₄ O ₅ - ²	H_2^0	Malic acid	125 mL	ICMLA1-125ML
Maleate, C ₄ H ₂ O ₄ - ²	H_2^0	Maleic acid	125 mL	ICMLE1-125ML
Malonate, C ₃ H ₂ O ₄ - ²	H_2^0	Malonic acid	125 mL	ICML01-125ML
Methanesulfonate, CH ₃ SO ₃ -	H ₂ 0	Methanesulfonic acid	125 mL	ICMSA1-125ML
Nitrate, NO ₃ -	H ₂ 0	NaNO ₃	125 mL 500 mL	ICN031-125ML ICN031-500ML
Nitrate as Nitrogen	H ₂ 0	NaNO ₃	125 mL 500 mL	ICNNO31-125ML ICNNO31-500ML
Nitrilotriacetate, NC ₆ H ₆ O ₆ -3	H_2^0	Nitrilotriacetic acid	125 mL	ICNTA1-125ML
Nitrite, NO ₂ -	H ₂ 0	NaNO ₂	125 mL 500 mL	ICN021-125ML ICN021-500ML
Nitrite as Nitrogen	H ₂ 0	NaNO ₂	125 mL 500 mL	ICNNO21-125ML ICNNO21-500ML

ANION STANDARDS

Custom anion standards are available upon request.

1,000 μg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Oxalate, C ₂ O ₄ -²	H ₂ 0	Sodium oxalate	125 mL 500 mL	ICOXA1-125ML ICOXA1-500ML
Perchlorate, CIO ₄ -	H ₂ 0	KCIO₄	125 mL 500 mL	ICCLO41-125ML ICCLO41-500ML
Phosphate, PO ₄ -3	H ₂ 0	$\mathrm{NH_4H_2PO_4}$	125 mL 500 mL	ICP041-125ML ICP041-500ML
Phosphate as Phosphorus	H ₂ 0	$NH_4H_2PO_4$	125 mL 500 mL	ICPP041-125ML ICPP041-500ML
Phthalate, C ₆ H ₄ (CO ₂) ₂ - ²	H ₂ 0	Potassium hydrogen phthalate	125 mL	ICKHP1-125ML
Propionate, C ₂ H ₅ CO ₂ -	H ₂ O	Sodium propionate	125 mL	ICOPR1-125ML
Succinate, C ₄ H ₄ O ₄ - ²	H_2^0	Succinic acid	125 mL	ICSCC1-125ML
Sulfate, SO ₄ -2	H ₂ 0	K_2SO_4	125 mL 500 mL	ICSO41-125ML ICSO41-500ML
Tartrate, C ₄ H ₄ O ₆ - ²	H_2^0	Tartaric acid	125 mL	ICTRTR1-125ML
Thiocyanate, SCN-	H ₂ 0	KSCN	125 mL	ICSCN1-125ML
Thiosulfate, S ₂ O ₃ -2	H ₂ 0	Sodium thiosulfate	125 mL 500 mL	ICS2031-125ML ICS2031-500ML

Custom anion standards are available upon request.

10,000 μg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Chloride, Cl-	H ₂ O	KCI	125 mL 500 mL	ICCL10-125ML ICCL10-500ML
Sulfate, SO ₄ -2	H ₂ 0	K_2SO_4	125 mL 500 mL	ICSO410-125ML ICSO410-500ML

Custom anion standards are available upon request.

100 ppm

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Nitrite, NO ₂ -	H ₂ 0	100	125 mL	ICN02-100PPM-125ML

CATION STANDARDS

Custom cation standards are available upon request.

1,000 μg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
3-Methoxypropylamine $CH_3O(CH_2)_3NH_2$	HCI	3-Methoxypropylamine	125 mL	ICMPA1-125ML
Ammonium, NH ₄ +	H ₂ O	NH ₄ Cl	125 mL 500 mL	ICNH41-125ML ICNH41-500ML
Ammonium as Nitrogen	$H_2^{}$ 0	NH ₄ Cl	125 mL 500 mL	ICNNH41-125ML ICNNH41-500ML
Barium, Ba ⁺²	HNO ₃	Ba(NO ₃) ₂	125 mL	ICBA1-125ML
Calcium, Ca+2	HNO ₃	CaO	125 mL 500 mL	ICCA1-125ML ICCA1-500ML
Cesium, Cs ⁺	HNO ₃	CsNO ₃	125 mL	ICCS1-125ML
Diethanolamine, (HOCH ₂ CH ₂) ₂ NH	H ₂ 0	Diethanolamine	125 mL	ICDEA1-125ML
Dimethylamine, NH(CH ₃) ₂	HCI	Dimethylamine	125 mL	ICDMA1-125ML
Lithium, Li ⁺	HNO ₃	Li ₂ CO ₃	125 mL	ICLI1-125ML
Magnesium, Mg ⁺²	HNO ₃	Mg metal	125 mL 500 mL	ICMG1-125ML ICMG1-500ML
$\begin{array}{ll} \textbf{Monoethanolamine,} \\ \textbf{HOCH}_2\textbf{CH}_2\textbf{NH}_2 \end{array}$	H ₂ O	Monoethanolamine	125 mL 500 mL	ICMEA1-125ML ICMEA1-500ML
$ \begin{array}{l} \textbf{Monomethylamine,} \\ \textbf{NH}_{2}\textbf{CH}_{3} \end{array} $	HCI	Monomethylamine	125 mL	ICMMA1-125ML
Potassium, K*	HNO ₃	KNO ₃	125 mL 500 mL	ICK1-125ML ICK1-500ML
Rubidium, Rb ⁺	HNO ₃	RbNO ₃	125 mL	ICRB1-125ML
Sodium, Na⁺	HNO ₃	$\mathrm{Na_{2}CO_{3}}$	125 mL 500 mL	ICNA1-125ML ICNA1-500ML
Strontium, Sr+2	HNO ₃	SrCO ₃	125 mL	ICSR1-125ML
Tetramethylammonium, $N^{+}(CH_{_{3}})_{_{4}}$	H ₂ 0	Tetramethylammonium hydroxide	125 mL	ICTMAH1-125ML
Triethanolamine, (HOCH ₂ CH ₂) ₃ N	H ₂ 0	Triethanolamine	125 mL	ICTEA1-125ML
Triethylamine, $(CH_3CH_2)_3N$	HCI	Triethylamine	125 mL	ICTA1-125ML
Trimethylamine, $(CH_3)_3N$	HCI	Trimethylamine	125 mL	ICTMA1-125ML

MULTI-ION STANDARDS

Anion Calibration Standard			
IC-FAS-1A Matrix: H ₂ O		x: H ₂ 0	
IC-FAS-1A-125ML IC-FAS-1A-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Br-	100	NO ₂ -	100
CI-	30	PO ₄ -3	150
F-	20	SO ₄ -2	150
NO ₃ -	100		

For anion analysis of water samples by ion chromatography (IC). Contains 7 "common anions" as defined by EPA and Standard Methods.

Cation Calibration Standard			
IC-SCS1 Matrix: HNO ₃			
IC-SCS1-125ML		Volume: 125 mL	
Analyte	μg/mL	Analyte	μg/mL
Ca ⁺²	1,000	Mg ⁺²	200
K ⁺	200	Na⁺	200
Li ⁺	50	NH ₄ ⁺	400

Used for daily calibration.

For cation analysis of water samples by ion chromatography (IC).

Cation Calibration Standard			
IV-STOCK-7		: HNO ₃	
IV-STOCK-7-125ML IV-STOCK-7-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Ba ⁺²	100	Mn ⁺²	100
Ca ⁺²	100	Na⁺	100
K ⁺	100	NH ₄ ⁺	100
Li ⁺	100	Sr ⁺²	100
Mg ⁺²	100		

Used for daily calibration.

For use as a certified reference standard in ion chromatography (IC) applications.

Anion Calibration Standard			
IV-STOCK-59		Matrix: H ₂ 0	
IV-STOCK-59-125ML IV-STOCK-59-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	Analyte	μg/mL
Br-	1000	NO ₂ -	1000
CI-	1000	PO ₄ -3	1000
F-	1000	SO ₄ -2	1000
NO _s -	1000		

For use as a certified reference standard in ion chromatography (IC) applications.

Anion Mix A		
IV-STOCK-61	Matrix: H ₂ 0	
IV-STOCK-61-125ML IV-STOCK-61-500ML	Volume: 125 mL Volume: 500 mL	
Analyte	Range	
Br-	20	
F-	10	
NO ₂ -	20	
\$0 ₄ -2	30	
CI-	20	
NO ₃ -	20	
PO ₄ -3	30	

For use as a certified reference standard in ion chromatography (IC) applications.

Cation Mix B		
IV-STOCK-62 Matrix: H ₂ 0		
IV-STOCK-62-125ML	Volume: 125 mL	
Analyte	Range	
Ca	2.0	
K	2.5	
Li	0.2	
Mg	2.0	
Na	1.5	
NH₄ ⁺ 1.5		

For use as a certified reference standard in ion chromatography (IC) applications.



Multi-Ion Standards

MULTI-ION STANDARDS

Anion Mix 4		
IV-STOCK-63 Matrix: H ₂ 0		
IV-STOCK-63-125ML	Volume: 125 mL	
Analyte	Range	
Br-	40	
F-	20	
NO ₂ -	40	
CI-	40	
NO ₃ -	40	
SO ₄ - ²	40	

For use as a certified reference standard in ion chromatography (IC) applications.

Anion Mix 5		
IV-STOCK-64	Matrix: H ₂ 0	
IV-STOCK-64-125ML IV-STOCK-64-500ML	Volume: 125 mL Volume: 500 mL	
Analyte	Range	
Br-	50	
CI-	50	
F	25	
NO ₃ -	50	
NO ₂ -	50	
PO ₄ -3	50	
\$0 ₄ -2	50	

For use as a certified reference standard in ion chromatography (IC) applications.

Custom eluent concentrates are available upon request.

0.18 M Sodium Carbonate/0.17 M Sodium Bicarbonate			
ELUENT1817-100ML Volume: 100 mL Matrix: H ₂ 0 ELUENT1817-500ML Volume: 500 mL Dilution: 1:100			
For preparation of 1.8 mM CO ₃ ⁻² / 1.7 mM HCO ₃ ⁻ eluent.			

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate (100x); To prepare 1.8 mM carbonate/1.7 mM bicarbonate eluent for IC applications; ISO 17034 Reference Material; Supplied with Product Information Sheet.

0.35 M Sodium Carbonate/0.10 M Sodium Bicarbonate			
ELUENT3510-100ML ELUENT3510-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ 0 Dilution: 1:100	
For preparation of 3.5 mM CO ₃ -2 / 1.0 mM HCO ₃ - eluent.			

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate (100x); To prepare 3.5 mM carbonate/1.0 mM bicarbonate eluent for IC applications; ISO 17034 Reference Material; Supplied with Product Information Sheet

0.5 M Sodium Bicarbonate		
BICARB-100ML BICARB-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ 0 Dilution: 1:100
For preparation of various CO ₃ ² / HCO ₃ - eluents.		

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate; To prepare carbonate/bicarbonate eluent for IC applications; ISO 17034 Reference Material; Supplied with Product Information Sheet.

0.5 M Sodium Carbonate		
CARB-100ML CARB-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ 0 Dilution: 1:100
For preparation of various CO ₃ ² / HCO ₃ - eluents.		

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate; To prepare carbonate/bicarbonate eluent for IC applications; ISO 17034 Reference Material; Supplied with Product Information Sheet.

1.8 M Methanesulfonic Acid			
MSAELUENT-100ML MSAELUENT-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ 0 Dilution: 1:100	
For preparation of 18 mM CH ₃ SO ₃ H eluent for analyzing cations.			

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate (100x); To prepare 18 mM methanesulfonic acid eluent for IC applications; ISO 17034 Reference Material; Supplied with Product Information Sheet.

300.0 Rev. 2.1 Part A / 300.1 Part A Custom EPA standards are available upon request.

0.18 M Sodium Carbonate/0.17 M Sodium Bicarbonate		
ELUENT1817-100ML	Volume: 100 mL	Matrix: H₂0
ELUENT1817-500ML	Volume: 500 mL	Dilution 1:100

For preparation of 1.8 mM CO₃-2 / 1.7 mM HCO₃- eluent.

This solution is a reagent and is not intended to be used as a certified reference material. Concentrate (100x); To prepare 1.8 mM carbonate/1.7 mM bicarbonate eluent for IC applications; ISO 17034 Reference Material; Supplied with Product Information Sheet.

Calibration Standard				
300-CAL-A-1: 300-CAL-A-5		Volume: 125 mL Volume: 500 mL		atrix: H ₂ 0 n 1:10 to 1:100
Analyte	μg/mL	Analyte		μg/mL
Br-	100	Nitrite as Nitroge	n	30
CI-	30	Nitrate as Nitroge	n	25
F-	20	Phosphate as Phosph	orus	50
\$0 ₄ -2	150			

For use as ion chromatography calibration standard in EPA Method 300.0. Also suitable for use as common anions standard in EPA Method 300.1.

Dichloroacetate Standard			
ICDCA-S-125ML ICDCA-S-500ML	Volume: 125 mL Volume: 500 mL Matrix: H ₂ 0		
Analyte			μg/mL
Cl ₂ HC ₂ O ₂ -			500

For use as a surrogate analyte.

For use as a surrogate analyte in ion chromatography (IC) analysis.

300.0 Rev. 2.1 Part A / 300.1 Part A Custom EPA standards are available upon request.

Laboratory Fortification Stock Standard				
300-LFS-A-12	25ML	Volume: 125 mL	Matrix: H ₂ 0 Dilution 1:100 to 1:1,000	
Analyte	μg/mL	Analyte		μg/mL
Br-	1,000	Nitrite as Nitroge	n	300
CI-	300	Nitrate as Nitroge	n	300
F-	200	Phosphate as Phosph	orus	500
\$0 ₄ -2	1,500			

This standard is used to prepare the Laboratory Fortified Blank and the Laboratory Fortified Sample Matrix

For use as ion chromatography laboratory fortified blank or fortified sample matrix solution in EPA Method 300.0. Also suitable for use as common anions fortified blank or fortified sample matrix solution in EPA Method 300.1.

QC Standard/Instrument Performance Check [†]				
QCP-QCS-5-125ML Volume: 125 mL Matrix: H ₂ 0 Dilution 1:10 to 1:1				
Analyte	μg/mL	Analyte		μg/mL
Br-	50	Nitrite as Nitroge	n	15
CI-	15	Nitrate as Nitroge	n	10
F-	10	Phosphate as Phosphorus 25		25
\$0 ₄ -2	75	†Manufactured from in-house Second Source concentrates.		

Can be used to prepare the QC Sample or the IPC Solution.

For use as a general ion chromatogrpahy quality control standard

300.1 Part B Custom EPA standards are available upon request.

Bromate		
ICBR031	Matrix: H ₂ O	
ICBR031-125ML ICBR031-500ML	Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	
BrO ₃ -	1,000	

Chlorate		
ICCL031	Matrix: H ₂ O	
ICCL031-125ML ICCL031-500ML	Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	
CIO ₃ -	1,000	

Bromide		
ICBR1	Matrix: H ₂ 0	
ICBR1-125ML ICBR1-500ML	Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	
Br-	1,000	

Dichloroacetate Standard		
ICDCA-S	Matrix: H ₂ 0	
ICDCA-S-125ML Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	
Cl ₂ HC ₂ O ₂ -	500	

For use as a surrogate analyte.

Chlorite		
ICCL021	Matrix: H ₂ 0	
ICCL021-125ML ICCL021-500ML	Volume: 125 mL Volume: 500 mL	
Analyte	μg/mL	
CIO ₂ -	1,000	

NOTE: Contains less than 10ppm ${\rm CIO_3}^-$.

Custom EPA standards are available upon request.

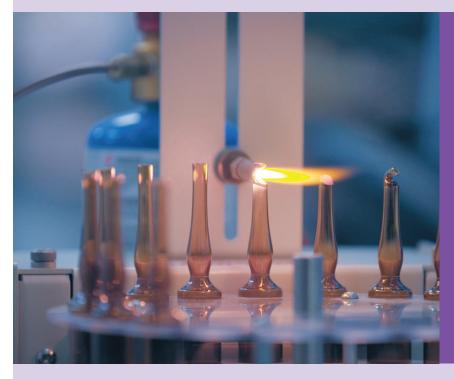
1,400 µmhos/cm Conductivity at 25°C		
CON1400-25 Matrix: H ₂ 0		
CON1400-25-125ML CON1400-25-500ML CON1400-25-1L	Volume: 125 mL Volume: 500 mL Volume: 1 L	

For the calibration of analytical instruments and validation of analytical methods as appropriate. Preserved with antimicrobial agent.

Perchlorate		
ICCLO41	Matrix: H ₂ 0	
ICCL041-125ML Volume: 125 mL Volume: 500 mL		
Analyte	μg/mL	
CIO ₄ -	1,000	

ATOMIC ABSORPTION

If Atomic Absorption (AA) is your technique of choice, we think you'll appreciate our full line of AA standards.



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- ✓ Up to five-year shelf life
- ✓ Traceable to NIST SRMs
- ✓ Produced under ISO 9001
- ✓ Assayed by validated procedures

SINGLE-ELEMENT STANDARDS

For the calibration of analytical instruments and validation of analytical methods as appropriate.

1,000 μg/mL

			1,000 μg/1111
ANALYTE	MATRIX	VOLUME	CATALOG #
Aluminum, Al	HNO ₃	125 mL 500 mL	AAAL1-125ML AAAL1-500ML
Antimony, Sb	HNO ₃ / Tartaric Acid	125 mL 500 mL	AASB1-125ML AASB1-500ML
Arsenic, As	HNO ₃	125 mL 500 mL	AAAS1-125ML AAAS1-500ML
Barium, Ba	HNO ₃	125 mL 500 mL	AABA1-125ML AABA1-500ML
Beryllium, Be	HNO ₃	125 mL 500 mL	AABE1-125ML AABE1-500ML
Bismuth, Bi	HNO ₃	125 mL 500 mL	AABI1-125ML AABI1-500ML
Boron, B	NH₄OH	125 mL 500 mL	AAB1-125ML AAB1-500ML
Cadmium, Cd	HNO ₃	125 mL 500 mL	AACD1-125ML AACD1-500ML
Calcium, Ca	HNO ₃	125 mL 500 mL	AACA1-125ML AACA1-500ML
Cerium, Ce	HNO ₃	125 mL 500 mL	AACE1-125ML AACE1-500ML
Cesium, Cs	HNO ₃	125 mL 500 mL	AACS1-125ML AACS1-500ML
Chromium, Cr	HNO ₃	125 mL 500 mL	AACR1-125ML AACR1-500ML
Cobalt, Co	HNO ₃	125 mL 500 mL	AACO1-125ML AACO1-500ML
Copper, Cu	HNO ₃	125 mL 500 mL	AACU1-125ML AACU1-500ML
Dysprosium, Dy	HNO ₃	125 mL 500 mL	AADY1-125ML AADY1-500ML
Erbium, Er	HNO ₃	125 mL 500 mL	AAER1-125ML AAER1-500ML
Europium, Eu	HNO ₃	125 mL 500 mL	AAEU1-125ML AAEU1-500ML
Gadolinium, Gd	HNO ₃	125 mL 500 mL	AAGD1-125ML AAGD1-500ML
Gallium, Ga	HNO ₃	125 mL 500 mL	AAGA1-125ML AAGA1-500ML
Germanium, Ge	HNO ₃ / HF	125 mL 500 mL	AAGE1-125ML AAGE1-500ML
Gold, Au	HCI	125 mL 500 mL	AAAU1-125ML AAAU1-500ML
Hafnium, Hf	HNO ₃ / HF	125 mL 500 mL	AAHF1-125ML AAHF1-500ML
Holmium, Ho	HNO ₃	125 mL 500 mL	AAHO1-125ML AAHO1-500ML
Indium, In	HNO ₃	125 mL 500 mL	AAIN1-125ML AAIN1-500ML

SINGLE-ELEMENT STANDARDS

1,000 μg/mL

			1,000 μg/1111
ANALYTE	MATRIX	VOLUME	CATALOG #
Iridium, Ir	HCI	125 mL 500 mL	AAIR1-125ML AAIR1-500ML
Iron, Fe	HNO ₃	125 mL 500 mL	AAFE1-125ML AAFE1-500ML
Lanthanum, La	HNO ₃	125 mL 500 mL	AALA1-125ML AALA1-500ML
Lead, Pb	HNO ₃	125 mL 500 mL	AAPB1-125ML AAPB1-500ML
Lithium, Li	HNO ₃	125 mL 500 mL	AALI1-125ML AALI1-500ML
Lutetium, Lu	HNO ₃	125 mL 500 mL	AALU1-125ML AALU1-500ML
Magnesium, Mg	HNO ₃	125 mL 500 mL	AAMG1-125ML AAMG1-500ML
Manganese, Mn	HNO ₃	125 mL 500 mL	AAMN1-125ML AAMN1-500ML
Mercury, Hg	HNO ₃	125 mL 500 mL	AAHG1-125ML AAHG1-500ML
Molybdenum, Mo	NH ₄ OH	125 mL 500 mL	AAMO1-125ML AAMO1-525ML
Neodymium, Nd	HNO ₃	125 mL 500 mL	AAND1-125ML AAND1-500ML
Nickel, Ni	HNO ₃	125 mL 500 mL	AANI1-125ML AANI1-500ML
Niobium, Nb	HNO ₃ / HF	125 mL 500 mL	AANB1-125ML AANB1-500ML
Palladium, Pd	HCI	125 mL 500 mL	AAPD1-125ML AAPD1-500ML
Phosphorus, P	H_2O	125 mL 500 mL	AAP1-125ML AAP1-500ML
Platinum, Pt	HCI	125 mL 500 mL	AAPT1-125ML AAPT1-500ML
Potassium, K	HNO ₃	125 mL 500 mL	AAK1-125ML AAK1-500ML
Praseodymium, Pr	HNO ₃	125 mL 500 mL	AAPR1-125ML AAPR1-500ML
Rhenium, Re	HNO ₃	125 mL 500 mL	AARE1-125ML AARE1-500ML
Rhodium, Rh	HCI	125 mL 500 mL	AARH1-125ML AARH1-500ML
Rubidium, Rb	HNO ₃	125 mL 500 mL	AARB1-125ML AARB1-500ML
Ruthenium, Ru	HCI	125 mL 500 mL	AARU1-125ML AARU1-500ML
Samarium, Sm	HNO ₃	125 mL 500 mL	AASM1-125ML AASM1-500ML
Scandium, Sc	HNO ₃	125 mL 500 mL	AASC1-125ML AASC1-500ML

SINGLE-ELEMENT STANDARDS

$1,000 \mu g/mL$

ANALYTE	MATRIX	VOLUME	CATALOG #
Selenium, Se	HNO_3	125 mL 500 mL	AASE1-125ML AASE1-500ML
Silicon, Si	HNO ₃ / HF	125 mL 500 mL	AASI1-125ML AASI1-500ML
Silver, Ag	HNO ₃	125 mL 500 mL	AAAG1-125ML AAAG1-500ML
Sodium, Na	HNO ₃	125 mL 500 mL	AANA1-125ML AANA1-500ML
Strontium, Sr	HNO ₃	125 mL 500 mL	AASR1-125ML AASR1-500ML
Sulfur, S	H ₂ 0	125 mL 500 mL	AAS1-125ML AAS1-500ML
Tantalum, Ta	HNO ₃ / HF	125 mL 500 mL	AATA1-125ML AATA1-500ML
Tellurium, Te	HCI	125 mL 500 mL	AATE1-125ML AATE1-500ML
Terbium, Tb	HNO ₃	125 mL 500 mL	AATB1-125ML AATB1-500ML
Thallium, Tl	HNO ₃	125 mL 500 mL	AATL1-125ML AATL1-500ML
Thorium, Th	HNO ₃	125 mL 500 mL	AATH1-125ML AATH1-500ML
Thulium, Tm	HNO ₃	125 mL 500 mL	AATM1-125ML AATM1-500ML
Tin, Sn	HNO ₃ / HF	125 mL 500 mL	AASN1-125ML AASN1-500ML
Titanium, Ti	HNO ₃ / HF	125 mL 500 mL	AATI1-125ML AATI1-500ML
Tungsten, W	HNO ₃ / HF	125 mL 500 mL	AAW1-125ML AAW1-500ML
Uranium, U	HNO ₃	125 mL 500 mL	AAU1-125ML AAU1-500ML
Vanadium, V	HNO ₃	125 mL 500 mL	AAV1-125ML AAV1-500ML
Ytterbium, Yb	HNO ₃	125 mL 500 mL	AAYB1-125ML AAYB1-500ML
Yttrium, Y	HNO ₃	125 mL 500 mL	AAY1-125ML AAY1-500ML
Zinc, Zn	HNO ₃	125 mL 500 mL	AAZN1-125ML AAZN1-500ML
Zirconium, Zr	HF	125 mL 500 mL	AAZR1-125ML AAZR1-500ML

MODIFIERS, BUFFERS & RELEASING AGENTS

Custom modifiers, buffers and releasing agents are available upon request.

1% Lanthanum Releasing Agent*			
LACB1 Matrix: HCI			
LACB1-500ML Volume: 500 mL			
Analyte	μg/mL		
La 10,000			

Used as a releasing agent (primarily for Ca in the presence of phosphate).

2% Lithium Ionization Buffer*			
LINB2 Matrix: HNO ₃			
LINB2-125ML Volume: 125 mL			
Analyte	μg/mL		
Li 20,000			

Supplies an excess of electrons to plasma/flame to minimize impact of ionization interferences.

1% Magnesium Nitrate Modifier*			
MM-MG-10 Matrix: H ₂ 0			
MM-MG-10-125ML Volume: 125 mL			
Analyte	μg/mL		
Mg(NO ₃) ₂ 10,000			

Used to change the volatility of the sample to prevent loss of analyte or to facilitate removal of interfering matrix components.

4% Phosphate Modifier*			
MM-P-40 Matrix: H ₂ 0			
MM-P-40-125ML Volume: 125 mL			
Analyte	μg/mL		
PO ₄ 40,000			

Used to change the volatility of the sample to prevent loss of analyte or to facilitate removal of interfering matrix components.

0.5% Palladium Modifier*			
MM-PD-5 Matrix: HNO ₃			
MM-PD-5-125ML Volume: 125 mL Volume: 500 mL			
Analyte	μg/mL		
Pd	5,000		

Used to change the volatility of the sample to prevent loss of analyte or to facilitate removal of interfering matrix components.

1% Palladium Modifier*			
MM-PD-10 Matrix: HNO ₃			
MM-PD-10-125ML Volume: 125 mL Volume: 500 mL			
Analyte	μg/mL		
Pd	10,000		

Used to change the volatility of the sample to prevent loss of analyte or to facilitate removal of interfering matrix components.

0.3% Palladium / 0.2% Magnesium Nitrate Modifier*			
MM-PDMG-32 Matrix: HNO ₃			
MM-PDMG MM-PDMG			
Analyte	μg/mL	Analyte	μg/mL
Mg(NO ₃) ₂	2,000	Pd 3,000	

Used to change the volatility of the sample to prevent loss of analyte or to facilitate removal of interfering matrix components.

^{*}Not to be used as a calibration standard, for analytical reagent use only. ISO 17034 Reference Material; Supplied with Product Information Sheet.

WATER QC

Our priority is your total satisfaction. Should you ever have a problem with any standard, Water QC or otherwise, let us know. We'll immediately investigate the problem by testing a retained sample of your solution. If the error is on our end, you'll be offered a full refund or a free replacement – your choice.



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Need a Custom CRM?	18

- ✓ Up to five-year shelf life
- **Traceable to NIST SRMs**
- **Produced under ISO 9001**
- **Produced under ISO 17025**
- Produced under ISO 17034
- ✓ Assayed by optimal validated procedures

WATER STANDARDS

Custom potable water standards for certain products are available upon request.

Bromate				
ICBR031 Matrix: H ₂ 0				
ICBR031-125ML ICBR031-500ML	Volume: 125 mL Volume: 500 mL			
Analyte	μg/mL			
BrO ₃ -	1,000			

Chlorate				
ICCL031 Matrix: H ₂ 0				
ICCL031-125ML ICCL031-500ML	Volume: 125 mL Volume: 500 mL			
Analyte	μg/mL			
CIO ₃ -	1,000			

Bromide				
ICBR1	Matrix: H ₂ 0			
ICBR1-125ML ICBR1-500ML	Volume: 125 mL Volume: 500 mL			
Analyte	μg/mL			
Br-	1,000			

Chlorite				
ICCL021 Matrix: H ₂ 0				
ICCL021-125ML ICCL021-500ML	Volume: 125 mL Volume: 500 mL			
Analyte	μg/mL			
CIO ₂ -	1,000			

NOTE: Contains less than 10ppm ${\rm CIO_3}^-$.

1,000 μg/mL Total Cyanide				
CN-1000-25-20ML	Volume: 20 mL Matrix: H ₂ 0			
Analyte	μg/mL			
CN-	1,000			

For the determination	of c	vanide i	n ad	ueous	samples.
i or the actermination	0. 0	, a i i i a c i		accac	ournpico.

Mercury Standard				
MSHG-1PPM Matrix: HCl				
MSHG-1PPM-125ML MSHG-1PPM-500ML	Volume: 125 mL Volume: 500 mL			
Analyte μg/mL				
Hg 1				

Custom wastewater standards are available upon request.

ANALYTE	MATRIX	STARTING MATERIAL	μg/ML	VOLUME	CATALOG #
Total Organic Carbon, TOC	H ₂ 0	KHP	1,000	125 mL	TOCKHP1-125ML
	2			500 mL	TOCKHP1-500ML

WET CHEMISTRY

Each pH standard is compatible with your instrumentation and meets all requirements for calibration by a true Certified Reference Material. Each standard is traceable to a NIST SRM and is engineered for long-term stability. Manufactured under our ISO 17034 accreditation, each pH standard comes with a CoA and a temperature chart for your convenience. Each product is packaged in our TCT technology with a multi-year shelf life and a one-year* expiration date from opening. All product labels and SDS are GHS-compliant.



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Need a Custom CRM?

At times, Wet Chemistry involves some difficult and unusual techniques. If you find yourself in a bind, give us a call. One of our experts will be happy to assist you. Plus, we offer analytical advice and in-depth technical guides on our website, inorganic ventures.com.

- ✓ Up to five-year shelf life
- ✓ Traceable to NIST SRMs
- ✓ Produced under ISO 9001
- Produced under ISO 17025
- ✓ Produced under ISO 17034
- ✓ Assayed by optimal validated procedures

* For most products.

WET CHEMICAL STANDARDS

For the calibration of analytical instruments and validation of analytical methods as appropriate. Preserved with antimicrobial agent. Custom conductivity standards are available upon request.

2 µmhos/cm Conductivity at 25°C			
Matrix: H ₂ 0			
CON2-25-125ML Volume: 125 mL			
CON2-25-500ML Volume: 500 mL			

5 μmhos/cm Conductivity at 25°C			
Matrix: H ₂ 0			
CON5-25-125ML Volume: 125 mL			
CON5-25-500ML Volume: 500 mL			

10 µmhos/cm Conductivity at 25°C		
Matrix: H ₂ 0		
CON10-25-125ML	Volume: 125 mL	
CON10-25-500ML	Volume: 500 mL	

84 µmhos/cm Conductivity at 25°C		
Matrix: H ₂ 0		
CON84-25-125ML	Volume: 125 mL	
CON84-25-500ML	Volume: 500 mL	
CON84-25-1L	Volume: 1 L	

100 µmhos/cm Conductivity at 25°C	
Matrix: H ₂ 0	
CON100-25-125ML	Volume: 125 mL
CON100-25-500ML	Volume: 500 mL
CON100-25-1L	Volume: 1 L

147 µmhos/cm Conductivity at 25°C	
Matrix: H ₂ 0	
CON147-25-125ML	Volume: 125 mL
CON147-25-500ML	Volume: 500 mL
CON147-25-1L	Volume: 1 L

500 µmhos/cm Conductivity at 25°C	
Matrix: H ₂ 0	
CON500-25-125ML	Volume: 125 mL
CON500-25-500ML	Volume: 500 mL
CON500-25-1L	Volume: 1 L

1,000 µmhos/cm Conductivity at 25°C	
Matrix: H ₂ 0	
CON1000-25-125ML	Volume: 125 mL
CON1000-25-500ML	Volume: 500 mL
CON1000-25-1L	Volume: 1 L

1,200 µmhos/cm Conductivity at 25°C		
Matrix: H ₂ 0		
CON1200-25-125ML	Volume: 125 mL	
CON1200-25-500ML	Volume: 500 mL	
CON1200-25-1L	Volume: 1 L	

1,400 µmhos/cm Conductivity at 25°C	
Matrix: H ₂ 0	
CON1400-25-125ML	Volume: 125 mL
CON1400-25-500ML	Volume: 500 mL
CON1400-25-1L	Volume: 1 L

1,413 µmhos/cm Conductivity at 25°C	
Matrix: H ₂ 0	
CON1413-25-125ML	Volume: 125 mL
CON1413-25-500ML	Volume: 500 mL
CON1413-25-1L	Volume: 1 L

1,430 µmhos/cm Conductivity at 25°C		
Matrix: H ₂ 0		
CON1430-25-125ML	Volume: 125 mL	
CON1430-25-500ML	Volume: 500 mL	
CON1430-25-1L	Volume: 1 L	

10,000 µmhos/cm Conductivity at 25°C	
Matrix: H ₂ 0	
CON10000-25-125ML	Volume: 125 mL
CON10000-25-500ML	Volume: 500 mL
CON10000-25-1L	Volume: 1 L

100,000 µmhos/cm Conductivity at 25°C	
Matrix: H ₂ 0	
CON100000-25-125ML	Volume: 125 mL
CON100000-25-500ML	Volume: 500 mL
CON100000-25-1L	Volume: 1 L

WET CHEMICAL STANDARDS

For the calibration of analytical instruments and validation of analytical methods as appropriate. Preserved with antimicrobial agent. Custom pH standards are available upon request.

pH 1.68	
Potassium tetroxalate	
PH-1.68-250ML	Volume: 250 mL
PH-1.68-500ML	Volume: 500 mL
PH-1.68-1L	Volume: 1 L
PH-1.68-4L	Volume: 4 L

pH 2	
Potassium chloride and hydrochloric acid	
PH-2-250ML	Volume: 250 mL
PH-2-500ML	Volume: 500 mL
PH-2-1L	Volume: 1 L
PH-2-4L	Volume: 4 L
PH-2-10L	Volume: 10 L

pH 3	
Potassium acid phthalate and hydrochloric acid	
PH-3-250ML Volume: 250 mL	
PH-3-500ML	Volume: 500 mL
PH-3-1L	Volume: 1 L
PH-3-4L	Volume: 4 L
PH-3-10L	Volume: 10 L

pH 4	
Potassium acid phthalate	
PH-4-250ML	Volume: 250 mL
PH-4-500ML	Volume: 500 mL
PH-4-1L	Volume: 1 L
PH-4-4L	Volume: 4 L
PH-4-10L	Volume: 10 L

pH 4 RED	
Potassium acid phthalate	
PHRED-4-250ML	Volume: 250 mL
PHRED-4-500ML	Volume: 500 mL
PHRED-4-1L	Volume: 1 L
PHRED-4-4L	Volume: 4 L
PHRED-4-10L	Volume: 10 L

pH 5	
Potassium acid phthalate and sodium hydroxide	
PH-5-250ML	Volume: 250 mL
PH-5-500ML	Volume: 500 mL
PH-5-1L	Volume: 1 L
PH-5-4L	Volume: 4 L

pH 6	
Monobasic potassium phosphate and sodium hydroxide	
PH-6-250ML	Volume: 250 mL
PH-6-500ML	Volume: 500 mL
PH-6-1L	Volume: 1 L
PH-6-4L	Volume: 4 L
PH-6-10L	Volume: 10 L

pH 6.86	
Potassium phosphate and dibasic sodium phosphate	
PH-6.86-250ML	Volume: 250 mL
PH-6.86-500ML	Volume: 500 mL
PH-6.86-1L	Volume: 1 L
PH-6.86-4L	Volume: 4 L
PH-6.86-10L	Volume: 10 L

pH 7	
Monobasic potassium phosphate and sodium hydroxide	
PH-7-250ML	Volume: 250 mL
PH-7-500ML	Volume: 500 mL
PH-7-1L	Volume: 1 L
PH-7-4L	Volume: 4 L
PH-7-10L	Volume: 10 L

pH 7 YELLOW	
Monobasic potassium phosphate and sodium hydroxide	
PHYELLOW-7-250ML Volume: 250 mL	
PHYELLOW-7-500ML	Volume: 500 mL
PHYELLOW-7-1L	Volume: 1 L
PHYELLOW-7-4L	Volume: 4 L
PHYELLOW-7-10L	Volume: 10 L

WET CHEMICAL STANDARDS

pH 8	
Monobasic potassium phosphate and sodium hydroxide	
PH-8-250ML	Volume: 250 mL
PH-8-500ML	Volume: 500 mL
PH-8-1L	Volume: 1 L
PH-8-4L	Volume: 4 L
PH-8-10L	Volume: 10 L

pH 9	
Boric acid, potassium chloride and sodium hydroxide	
PH-9-250ML	Volume: 250 mL
PH-9-500ML	Volume: 500 mL
PH-9-1L	Volume: 1 L
PH-9-4L	Volume: 4 L
PH-9-10L	Volume: 10 L

pH 9.18	
Sodium borate decahydrate	
PH-9.18-250ML	Volume: 250 mL
PH-9.18-500ML	Volume: 500 mL
PH-9.18-1L	Volume: 1 L

pH 10	
Sodium bicarbonate and sodium carbonate	
PH-10-250ML Volume: 250 mL	
PH-10-500ML	Volume: 500 mL
PH-10-1L	Volume: 1 L
PH-10-4L	Volume: 4 L
PH-10-10L	Volume: 10 L

pH 10 BLUE	
Sodium bicarbonate and sodium carbonate	
PHBLUE-10-250ML Volume: 250 mL	
PHBLUE-10-500ML	Volume: 500 mL
PHBLUE-10-1L	Volume: 1 L
PHBLUE-10-4L	Volume: 4 L
PHBLUE-10-10L	Volume: 10 L

pH 11	
Dibasic sodium phosphate and sodium hydroxide	
PH-11-250ML Volume: 250 mL	
PH-11-500ML	Volume: 500 mL
PH-11-1L	Volume: 1 L
PH-11-4L	Volume: 4 L
PH-11-10L	Volume: 10 L

pH 12	
Potassium chloride and sodium hydroxide	
PH-12-250ML Volume: 250 mL	
PH-12-500ML	Volume: 500 mL
PH-12-1L	Volume: 1 L
PH-12-4L	Volume: 4 L
PH-12-10L	Volume: 10 L

pH 12.47	
Sodium hydroxide and potassium chloride	
PH-12.47-250ML	Volume: 250 mL
PH-12.47-500ML	Volume: 500 mL
PH-12.47-1L	Volume: 1 L

Cyanide Standards

Custom cyanide standards are available upon request.

1,000 ug/mL Total Cyanide	
CN-1000-25-20ML	Volume: 20 mL Matrix: H ₂ 0
Analyte	μg/mL
CN-	1,000



Leave buffer preparation to the experts.

Your pH meter will thank you.

pH BUFFERS SPECIALLY FORMULATED FOR USP <791>

For analysts in the pharmaceutical industry tasked with maintaining proper pH meter calibration in accordance with USP <791>, Inorganic Ventures' CRMs deliver confidence, control, and support.

Our pH buffers are NIST-traceable and manufactured and tested under ISO 17034 and ISO 17025 guidelines. Each standard is accompanied by a detailed Certificate of Analysis (CoA), displaying certified values for multiple temperatures. In addition, these solutions are formulated to meet USP <791> specifications* and are ready to use right out of the bottle.

pH Buffer Features:

- NIST-traceable standards, certified within 5% of the nominal values and associated uncertainties of no more than 0.05 pH units.
- Packaged in Transpiration Control Technology (TCT) which guarantees scientific integrity for up to 5-years from the date of manufacture.
- · Ready to use with no preparation required.

WE OFFER A COMPLETE LINE OF PH CALIBRATION STANDARDS, SUITABLE FOR CALIBRATION AS SPECIFIED IN USP <791>.

pH-1.68	
pH-4.01	
pH-6.86	
pH-9.18	
pH-10.01	PH-9.18
pH-12.45*	9 301 5 073 30 9 300 6 073 40 9 300 6 073 40 9 100 6 073 40 9 100 6 073 50
o ensure solution stability, pH 12.45 is ormulated using KCI/NaOH.	250 mL de Lot KC-WCS

Do you need a specific pH value not listed above or require a specific formulation?

We have the scientific expertise to refine formulations and address your specific needs. Simply contact IV for a custom quote or to learn about our complete line of pH buffer stock standards.



SAMPLE PREPARATION

Dissolution Reagents & Stabilizers

Dissolution Reagents are designed for the preparation and measurement of samples containing silica mixed with fluoride insoluble elements, including zeolites, alumina and/or silica based catalysts, sand, limestone, coal fly ash and talc.

These products permit the simple dissolution of silicates without additional equipment, and are designed for ICP measurement of Si and other elements using traditional glass-based sample introduction systems.

The following products are intended to be used together; UA-1 for sample dissolution and UNS-1 for neutralization and stabilization. Please see the article titled Elemental Analysis of Zeolites on our website for more information. Custom dissolution reagents for specific applications are available upon request, and please contact us for more information.

Acid Dissolution Reagent UA-1-500ML Volume: 500 mL Recommended for the dissolution of aluminosilicates, such as zeolites.

Stabilizing Reagent	
UNS-1-500ML UNS-1-2.5L	Volume: 500 mL Volume: 2.5 L
Designed for use with UA-1.	

Fusion Fluxes

See section 13 of the Reliable Measurements Guide found on our website for a sample preparation method designed to work perfectly with this product.

For use as a high-purity flux in fusion sample preparation methods. Suitable for lower-temperature fusion methods. Do not use with Pt crucibles. Please see the Trace Analysis Guide on our website for more information regarding fusion sample preparation methods.

Don't see exactly what you're looking for?

Give us a call. Custom reference materials are our specialty.



CERTIFIED TITRANTS

These Certified Titrants are traceable to NIST and accredited to ISO 17034. Custom certified titrants are available upon request.

0.05M EDTA	
0.05M-EDTA-500ML	Matrix: H ₂ 0 Volume: 500 mL
0.05M EDTA, 500mL	

0.5M EDTA	
0.5M-EDTA-500ML	Matrix: H ₂ O Volume: 500 mL
0.5M EDTA, 500mL	

0.1M Hydrochloric Acid	
0.1M-HCL-500ML	Matrix: H ₂ 0 Volume: 500 mL
0.1M Hydrochloric Acid, 500mL	

1.0M Hydrochloric Acid	
1.0M-HCL-500ML	Matrix: H ₂ 0 Volume: 500 mL
1.0M Hydrochloric Acid, 50	0mL

0.1M Nitric Acid	
0.1M-HN03-500ML	Matrix: H ₂ O Volume: 500 mL
0.1M Nitric Acid, 500mL	

1.0M Nitric Acid	
1.0M-HN03-500ML	Matrix: H ₂ 0 Volume: 500 mL
1.0M Nitric Acid, 500mL	

0.1M Perchloric Acid	
0.1M-HCL04-500ML	Matrix: H ₂ O/0.1M HClO ₄ in Glacial Acetic Acid Volume: 500 mL
0.1M Perchloric Acid, 500mL	

0.1N Silver Nitrate	
0.1N-AGNO3-500ML	Matrix: H ₂ 0 Volume: 500 mL
0.1N Silver Nitrate, 500mL	

0.1M Sodium Hydroxide	
0.1M-NAOH-500ML	Matrix: H ₂ O Volume: 500 mL
0.1M Sodium Hydroxide, 500mL	

0.1N Sodium Thiosulfate	
0.1N-NA2S2O3-500ML	Matrix: H ₂ 0 Volume: 500 mL
0.1N Sodium Thiosulfate 500 mL. Prepared and standardized according to USP specifications.	

1M Sodium Hydroxide	
1M-NAOH-500ML	Matrix: H ₂ O Volume: 500 mL
1M Sodium Hydroxide, 500mL	

WET CHEMISTRY REAGENTS

Blank & Rinse Solutions

Blank & Rinse solutions are prepared using double-distilled reagents and 18 megohm (M Ω) deionized water. They come packaged in ultra-clean LDPE bottles and are ready to use. Custom solutions are available upon request.

2% (v/v) Nitric Acid Rinse	
CLP-MS-RINSE	Matrix: HNO ₃
Ultra Pure	Dilution: Ready to Use
CLP-MS-RINSE-125ML	Volume: 125 mL
CLP-MS-RINSE-500ML	Volume: 500 mL

Deionized Blank	
IV-DI-BLANK	Matrix: H ₂ 0
IV-DI-BLANK-500ML IV-DI-BLANK-1L	Volume: 500 mL Volume: 1 L

For use with ICP-MS. Designed for ILM05.2 and ILM05.3.

5% (v/v) Nitric Acid Blank		
IV-ACID-BLANK Ultra Pure Matrix: HNO ₃		
IV-ACID-BLANK-500ML IV-ACID-BLANK-1L		

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0.05M-EDTA-500ML	107	AACD1-500ML	95	AAPB1-125ML	96	AAZR1-500ML	
0.5M-EDTA-500ML		AACE1-125ML		AAPB1-500ML	96	AGI-TS-1-125ML	
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0.1N-AGN03-500ML	107	AACR1-500ML	95	AAPT1-125ML	96		
1.0M-HCL-500ML		AACS1-125ML	95	AAPT1-500ML	96	CARB-100ML	91
1.0M-HN03-500ML		AACS1-500ML		AARB1-125ML		CARB-500ML	
1M-NOAH-500ML		AACU1-125ML		AARB1-500ML		CCS-1-125ML	
0.1N-NA2S2O3-500ML		AACU1-500ML		AARE1-125ML		CCS-1-500ML	
2007ICS-1-125ML		AACUCN-125ML		AARE1-500ML		CCS-2-125ML	
2007ICS-1-125ML		AACUCN-500ML		AARH1-125ML		CCS-4-125ML	
2007ICS-3-125ML 2007ICS-4-125ML		AADY1-125ML		AARH1-500ML		CCS-4-500ML	
2007103-4-125ML 2008CAL-1-125ML		AADY1-125ML		AARU1-125ML	• • • • • • • • • • • • • • • • • • • •	CCS-5-125ML	
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2008CAL-2-500ML		AAER1-500ML		AAS1-125ML		CCS-6-125ML	
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