

VERSION 19



INORGANIC CUSTOM & STOCK  
CERTIFIED REFERENCE MATERIALS

ISO 17034 | ISO 17025 | ISO 9001

# Our Employees Are the Key Element to Our Success



George Akers



Gregory Allen

AC – Accounting  
 BD – Business Development  
 CH – Chemist, R&D  
 CMA – Commercial Management  
 CB – Chairman of the Board  
 CS – Customer Service  
 FS – Facilities & Systems  
 HR – Human Resources  
 INV – Inventory

IMS – Integrated Management Systems  
 MF – Manufacturing  
 MK – Marketing  
 P/CEO – President and Chief Executive Officer  
 PA – Purchasing Agent  
 PD – Product Documentation  
 PK – Packaging  
 PRD – Production  
 QC – Quality Control



Michael Booth



Melissa Branscome



Jessica Broche



Brad Bryson



Joseph Burns



Gary Costa



Ken Gaborik



Christopher Gaines



Linda Gaines



Paul Gaines, PhD



Madeline Gozzi



Allyson Guilliams



Jimmy Holcomb



Jeff Itle



Jessica Jamie



Ashley Jones



Montana Kessinger



Muzzammil Khan



Tabitha Mesa



Ashley Michael



Kennon Nash



Michelle Newton



Lesley Owens



Roy Pesciotta



Josh Rancourt



Mollie Reid



Laura Robinson



Angela Robson



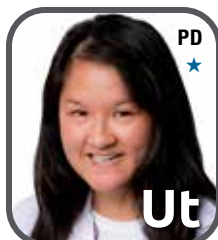
Judith Sclafani



Donna Senn



Katie Tindall



Uyen Trong



Joshua Underwood

*Pictured front cover: Johnver Atienza (foreground); Autumn Phillips, Maria Navarro (background); Julia Hotinger (far right).*



**RC** – Receptionist  
**RD** – Research & Development  
**SH** – Shareholder  
**SP** – Shipping  
**VP/F** – Vice President, Finance  
**VP/IB** – Vice President, International Business  
**VP/T** – Vice President, Technical

★ – Supervisor  
 ▲ – Manager  
 ■ – Lead  
 ◆ – Specialist



Brian Alexander, PhD



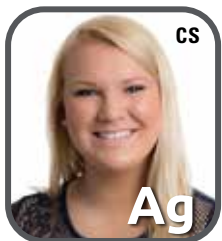
Vickie Ayers



Aaron Cragget



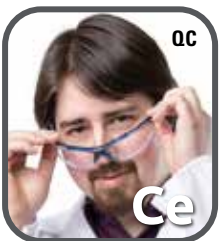
Elizabeth Day



Anne de Gastyne



Justin DiRico



Christopher Estes



Brenda Francis



Thomas Gwinn



Deborah Haines



Lee Hawthorne



Cailin Henry



Danielle Hinkley



Madeline Marshall



James King Jr.



Thomas Kozikowski



Tracy Lancaster



Jonathan Lawrence



Theron Lester



William Marble



Autumn Phillips



Ragan Phillips



Nicholas Plymale



Shalin Presgraves



Hanna Quesenberry



Courtney Rainer



Tammy Shepherd



Karen Sporakowski



Adam Stevens



Kathy Stoner



Kelsey Stroupe



Gannon Swihart



Josephine Wall



Rebecca Weddle



Justin Yalung

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## Quality

**A history of accreditation.** For more than 13 years, Inorganic Ventures has been accredited by A2LA to ISO 17034 & 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 every CRM is engineered to be stable, compatible, NIST 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

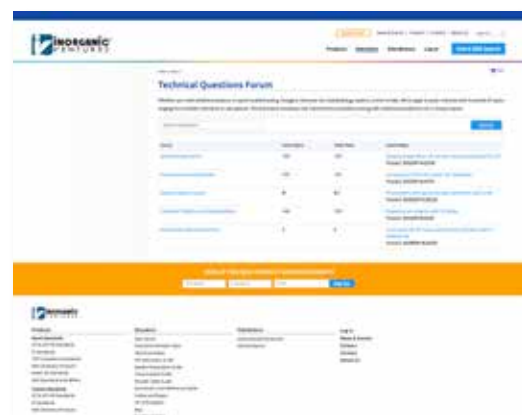
*WE flex* TO YOUR SPECS®



## 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](http://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.



# WE FLEX TO YOUR SPECS CERTIFICATE OF ANALYSIS

**INORGANIC VENTURES**  
100 Technology Dr., Orem, UT 84057, USA  
Tel: 801.225.1100 | Fax: 801.225.1101  
www.inorganicventures.com

**CERTIFICATE OF ANALYSIS**

**1.0 ACCREDITATION / REGISTRATION**  
INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories" through the American Society for Testing and Materials (ASTM) Global Data Center (GDC).

**2.0 PRODUCT DESCRIPTION**  
Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGGD1  
Lot Number: J2-GDD1986  
Name: 7% (w/v) INH3  
Value / Assay(s): 1.037 g/mL vs. 04  
Starting Material: GAD30  
Starting Material Lot#: 1888  
Starting Material Purity: 99.992%  
Certified Values and Uncertainties:  
Certified Value: 999 ± 2 µg/mL  
Certified Density: 1.037 g/mL (measured at 20 ± 1 °C)

**Assay Information:**  
Assay Method #1: 999 ± 2 µg/mL  
GFAA, 1027 076 0766 Lot Number: 002008  
Assay Method #2: 999 ± 2 µg/mL  
GFAA, 1027 076 0766 Lot Number: 002008

Page 1 of 2

Compliant with ISO Guide 31:2015

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

**Contact us for a sample.**

**1.0 IDENTIFICATION OF THE SUBSTANCE**  
Product Name: Single Analyte Custom Grade Solution  
Catalog Number: CGGD1  
Lot Number: J2-GDD1986  
Name: 7% (w/v) INH3  
Value / Assay(s): 1.037 g/mL vs. 04

**2.0 CERTIFIED VALUES AND UNCERTAINTIES**  
Certified Value: 999 ± 2 µg/mL  
Certified Density: 1.037 g/mL (measured at 20 ± 1 °C)

**3.0 TRACEABILITY**  
Reference Material: NIST SRM 9100a  
Reference Material Lot #: 1010101010

**4.0 CERTIFIED VALUES AND UNCERTAINTIES**  
Certified Value: 999 ± 2 µg/mL  
Certified Density: 1.037 g/mL (measured at 20 ± 1 °C)

**5.0 UNEXPECTED IMPURITIES**  
Impurity Name: ...  
Value: ...

**6.0 STORAGE AND HANDLING**  
Storage: ...  
Handling: ...

**7.0 SIGNATURES**  
Prepared By: Dawn Lane  
Checked By: ...  
Released By: ...

## 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 nine different languages.

[inorganicventures.com/inorganic-standards](http://inorganicventures.com/inorganic-standards)

## Inorganic Ventures Label

**INORGANIC VENTURES**  
100 Technology Dr., Orem, UT 84057, USA  
Tel: 801.225.1100 | Fax: 801.225.1101  
www.inorganicventures.com

**CGGD1**

**Gd**

Gadolinium  
Gadolinium / Gadolinium  
999 ± 2 µg/mL Gadolinium  
7% (w/v) INH3  
125mL d=1.037 g/mL  
Lot: J2-GDD1986

**Component / Component (CAS)**  
Intric Acid / Acids Nitrous (7697-07-2)

**Page 1 of 2**

**INORGANIC VENTURES**  
100 Technology Dr., Orem, UT 84057, USA  
Tel: 801.225.1100 | Fax: 801.225.1101  
www.inorganicventures.com

**SAFETY DATA SHEET**

Product Name: Single Analyte Custom Grade Solution  
Catalog Number: CGGD1  
Lot Number: J2-GDD1986  
Name: 7% (w/v) INH3  
Value / Assay(s): 1.037 g/mL vs. 04

**1. IDENTIFICATION OF THE SUBSTANCE/Preparation and of the Company/Manufacturer**  
Product Name: Single Analyte Custom Grade Solution  
Catalog Number: CGGD1  
Lot Number: J2-GDD1986  
Name: 7% (w/v) INH3  
Value / Assay(s): 1.037 g/mL vs. 04

**2. HAZARD IDENTIFICATION**  
GHS Classification:  
GHS05: Corrosive to Metals  
GHS09: Environment

**3. PRECAUTIONARY STATEMENTS**  
Prevention:  
P201+202: Attention (read the label and instructions carefully before use.)  
P273: Avoid release to the environment.

**4. SAFETY INFORMATION**  
Hazard Statements:  
H314: Causes severe skin burns and eye damage.

**5. ENVIRONMENTAL INFORMATION**  
Environmental Precautionary Statements:  
P501: Dispose of contents and container in accordance with local, national, and international regulations.

**6. DISPOSAL INFORMATION**  
Disposal:  
S11: Keep this material/container sealed until disposal.

**7. TRANSPORT INFORMATION**  
UN Number:  
UN 3024: Corrosive liquid, n.o.s.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**  
Respiratory Protection:  
P273: Avoid release to the environment.

**9. PHYSICAL AND CHEMICAL INFORMATION**  
Molecular Weight:  
151.95 g/mol

**10. STABILITY AND REACTIVITY**  
Stability:  
Stable under normal conditions.

**11. TOXICOLOGICAL INFORMATION**  
Toxicological Information:  
No data available.

**12. ECOTOXICOLOGICAL INFORMATION**  
Ecotoxicological Information:  
No data available.

**13. MUTAGENICITY, CLASTICITY AND GENOTOXICITY INFORMATION**  
Mutagenicity, Clastogenicity and Genotoxicity Information:  
No data available.

**14. CARCINOGENICITY INFORMATION**  
Carcinogenicity Information:  
No data available.

**15. REPRODUCTIVE TOXICITY INFORMATION**  
Reproductive Toxicity Information:  
No data available.

**16. DEVELOPMENTAL TOXICITY INFORMATION**  
Developmental Toxicity Information:  
No data available.

**17. ENDPOINTS OF TOXICITY INFORMATION**  
Endpoints of Toxicity Information:  
No data available.

**18. ADDITIONAL INFORMATION**  
Additional Information:  
No data available.

**19. REGULATORY INFORMATION**  
Regulatory Information:  
No data available.

**20. OTHER INFORMATION**  
Other Information:  
No data available.

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**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, 7:00 a.m. to 6:00 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](http://inorganicventures.com/tech-center)

## Phone

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

## Email

- [info@inorganicventures.com](mailto:info@inorganicventures.com)

## Online

- [inorganicventures.com/forum](http://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.

INORGANIC VENTURES'

## Declaration of Integrity

While our reputation is nearly perfect, we are not infallible. That is why every order we ship includes this document. Herein we state, in no uncertain terms, that we are 100% accountable for the quality of our standards and service.

Therefore, if you are dissatisfied with your order for any reason, tell us. We will resolve the situation in whatever way works best for you:

- A full refund
- Complimentary technical services
- A replacement item rushed to you at no cost

Our company was founded on integrity. If our standards are not measuring up to yours, we want to know.

Paul R. Gaines, PhD  
CEO, Inorganic Ventures

WE flex TO YOUR SPECS™

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inorganicventures.com | 800.669.6799 | 540.585.3030



# TCT™

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?

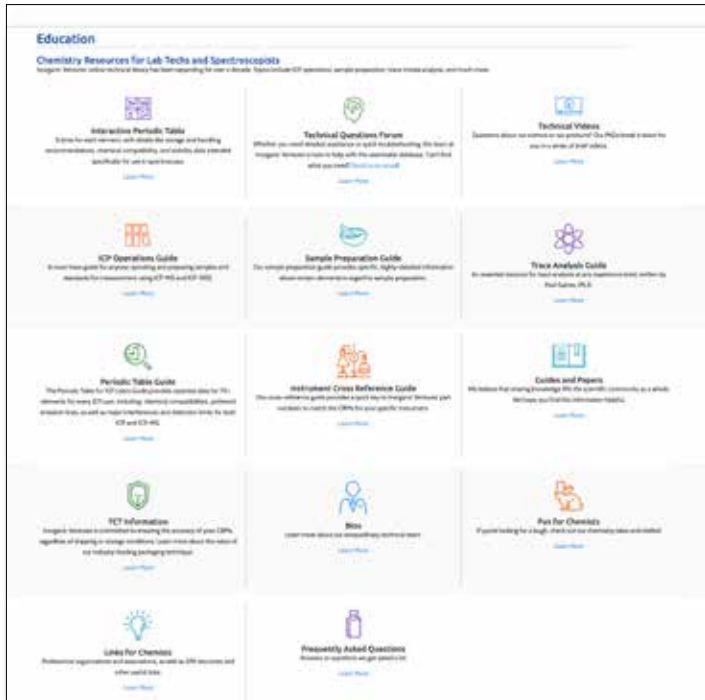
The product has not changed, it is the same high-quality product you have come to depend on from Inorganic Ventures. It is the same but only better. TCT is an investment we are making to extend shelf life and give you more control at no extra charge. Our products and unconditional guarantee remain the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

## What this means for you.

When you order stock 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.

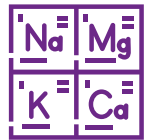
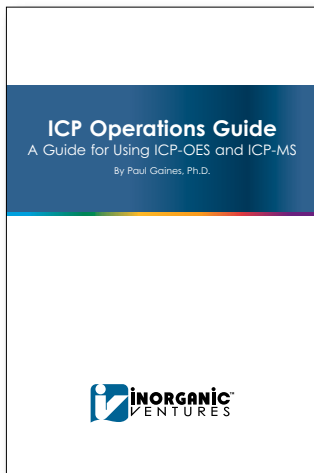
For more information on TCT, visit  
[inorganicventures.com/tct](https://www.inorganicventures.com/tct)





[inorganicventures.com/tech-center](http://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 comparabilities, 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 "Ask a Chemist" video series.



**TCT**  
TRANSPIRATION CONTROL TECHNOLOGY

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

**YOUR EXP:** In effect, this puts you in control of the expiration date, which is one year from opening the sealed TCT bag or the lot expiration date, whichever comes first.

**HOW IT WORKS**

The sealed TCT bag stops the loss of water vapor from the bottle when equilibrium is reached inside the bag. Inorganic Ventures guarantees the integrity of the product one full year from opening the sealed TCT bag. You can store your TCT packaged CRM/Kit under normal conditions without compromising quality or risking transpiration.

**HAS THE PRODUCT CHANGED?**

**NO**  
If it's the same high-quality product you have come to depend on from Inorganic Ventures.

**SAME AS ALWAYS.**  
TCT is an investment we are making to extend shelf life and give you more control of no extra charge. Our products and unconditional guarantee remain the same.

**ASK ABOUT TCT!**  
Visit our Tech Center to learn more about TCT and other ways we're working hard to improve your standards.

**A BETTER PRODUCT!**  
It's in the bag with Inorganic Ventures.

**INORGANIC VENTURES** [inorganicventures.com/tct](http://inorganicventures.com/tct)

# CUSTOM STANDARDS

## Speed. Credibility. Cooperation.

We can prepare almost any inorganic blend within the boundaries of science. Whether you need two analytes or 20, milliliters or liters, 0.001  $\mu\text{g/mL}$  or 10,000  $\mu\text{g/mL}$ , we can make it for you — fast. It's our specialty.



**Customization** — The most prominent way that we flex to your specs.

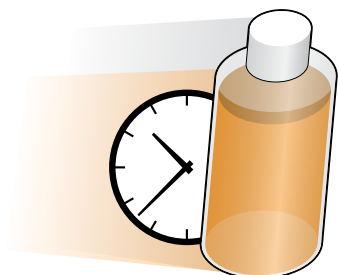
- ✓ Up to 4-year shelf life\*
- ✓ Traceable to NIST SRMs
- ✓ Produced under ISO 9001
- ✓ Produced under ISO 17025
- ✓ Produced under ISO 17034
- ✓ Assayed by optimal validated procedures

\*Call for details.

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Our catalog reveals only a fraction of the inorganic solutions we're able to make. Much of our business is devoted entirely to custom blending. Laboratories across the globe trust us exclusively to manufacture their inorganic standards.



### Fast

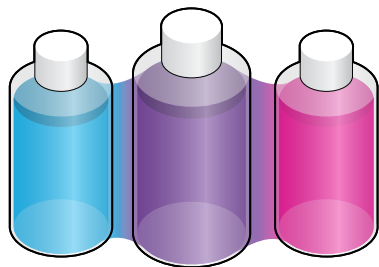
Our specialization in custom blending means faster service without sacrificing quality. Our experienced technicians can identify stability and compatibility issues before production even begins. Almost every blend we make is prepared, certified and shipped in 10 full business days.



### Credible

Since 1999, our tri-tier ISO quality system has ensured that every standard we make is engineered to be stable, compatible and easy to use. These international accreditations guarantee that you're receiving a true Certified Reference Material.

- **ISO 17034** ensures the reliability of our reference materials.
- **ISO 17025** ensures the competency of our laboratory.
- **ISO 9001** ensures the quality of our services.



### Cooperative

Speed and credibility often come at a higher price. We offer specialized purchasing options and other incentives to better accommodate your budget. Just ask. We're happy to manufacture nearly any solution in bulk quantities. This prevents the need for repeat labor, which means you'll save money. Plus, there's no waiting when you reorder the material — it'll ship the day you order.

# 1

## REQUEST your customs.

Generate and request any number of custom solutions at [inorganicventures.com](http://inorganicventures.com). Or call in your request to 800.669.6799 and discuss your needs with a specialist. You may also fax the quotation request form to 540.585.3012.

# 2

## REVIEW our quotation.

Often you'll receive our pricing within hours. If you like what you see, place your order by phone, fax or web. Each quote will contain pricing for several different quantities so you can choose the quantity that fits your budget.

# 3

## RECEIVE your order.

Ninety-nine percent of the custom orders we prepare ship in 10 full business days. If we expect it to take longer, we'll let you know. When your need is truly urgent, we offer RUSH manufacturing. Plus, everything we make is backed by our Declaration of Integrity. Your satisfaction is 100 percent guaranteed for the lifetime of the solution.





# QUOTATION REQUEST FORM

**To:** Customer Service  
Inorganic Ventures  
300 Technology Drive  
Christiansburg, VA 24073

Page \_\_\_\_ of \_\_\_\_

- 1 Photocopy this page.
- 2 Fill out the form.
- 3 Fax to 540.585.3012.

**Date:** \_\_\_\_\_ (Prices guaranteed for 60 days.)

**From:** Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Email \_\_\_\_\_

Account No. \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

## Describe Your Blend:

ANALYTE	CONCENTRATION	ANALYTE	CONCENTRATION
1.	_____	21.	_____
2.	_____	22.	_____
3.	_____	23.	_____
4.	_____	24.	_____
5.	_____	25.	_____
6.	_____	26.	_____
7.	_____	27.	_____
8.	_____	28.	_____
9.	_____	29.	_____
10.	_____	30.	_____
11.	_____	31.	_____
12.	_____	32.	_____
13.	_____	33.	_____
14.	_____	34.	_____
15.	_____	35.	_____
16.	_____	36.	_____
17.	_____	37.	_____
18.	_____	38.	_____
19.	_____	39.	_____
20.	_____	40.	_____

### UNITS:

- |                                |                                |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> µg/mL | <input type="checkbox"/> mg/L  |
| <input type="checkbox"/> µg/L  | <input type="checkbox"/> ng/mL |
| <input type="checkbox"/> µg/g  | <input type="checkbox"/> ng/g  |
| <input type="checkbox"/> µg/Kg | <input type="checkbox"/> g/mL  |

### VOLUME:

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> 30 mL    | <input type="checkbox"/> quantity |
| <input type="checkbox"/> 125 mL   | <input type="checkbox"/> quantity |
| <input type="checkbox"/> 250 mL   | <input type="checkbox"/> quantity |
| <input type="checkbox"/> 500 mL   | <input type="checkbox"/> quantity |
| <input type="checkbox"/> 1,000 mL | <input type="checkbox"/> quantity |
| <input type="checkbox"/> _____ L  | <input type="checkbox"/> quantity |

### MATRIX:

- \_\_\_\_\_
- Inorganic Ventures can specify

Requested Delivery Date:

\_\_\_\_\_

**Specified Requirements:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- RUSH Manufacturing**  
Additional charges may apply.

You may also request quotations online:  
[inorganicventures.com](http://inorganicventures.com)

# 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.

**User-Driven Development** —  
Another fundamental way we in which we flex to your specs.

- ✓ Up to four-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

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## SINGLE-ELEMENT STANDARDS

## 10 µg/mL Standards

Custom 10 µg/mL standards are available upon request.

10 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Aluminum, Al	HNO <sub>3</sub>	125 mL	MSAL-10PPM-125ML
		500 mL	MSAL-10PPM-500ML
Antimony, Sb	HNO <sub>3</sub> / Tartaric Acid	125 mL	MSSB-10PPM-125ML
		500 mL	MSSB-10PPM-500ML
Arsenic, As	HNO <sub>3</sub>	125 mL	MSAS-10PPM-125ML
		500 mL	MSAS-10PPM-500ML
Barium, Ba	HNO <sub>3</sub>	125 mL	MSBA-10PPM-125ML
		500 mL	MSBA-10PPM-500ML
Beryllium, Be	HNO <sub>3</sub>	125 mL	MSBE-10PPM-125ML
		500 mL	MSBE-10PPM-500ML
Bismuth, Bi	HNO <sub>3</sub>	125 mL	MSBI-10PPM-125ML
		500 mL	MSBI-10PPM-500ML
Boron, B	HNO <sub>3</sub>	125 mL	MSB-10PPM-125ML
		500 mL	MSB-10PPM-500ML
Cadmium, Cd	HNO <sub>3</sub>	125 mL	MSCD-10PPM-125ML
		500 mL	MSCD-10PPM-500ML
Calcium, Ca	HNO <sub>3</sub>	125 mL	MSCA-10PPM-125ML
		500 mL	MSCA-10PPM-500ML
Cerium, Ce	HNO <sub>3</sub>	125 mL	MSCE-10PPM-125ML
		500 mL	MSCE-10PPM-500ML
Cesium, Cs	HNO <sub>3</sub>	125 mL	MSCS-10PPM-125ML
		500 mL	MSCS-10PPM-500ML
Chromium <sup>+3</sup> , Cr <sup>+3</sup>	HNO <sub>3</sub>	125 mL	MSCR(3)-10PPM-125ML
		500 mL	MSCR(3)-10PPM-500ML
Chromium <sup>+6</sup> , Cr <sup>+6</sup>	H <sub>2</sub> O	125 mL	MSCR(6)-10PPM-125ML
		500 mL	MSCR(6)-10PPM-500ML
Cobalt, Co	HNO <sub>3</sub>	125 mL	MSCO-10PPM-125ML
		500 mL	MSCO-10PPM-500ML
Copper, Cu	HNO <sub>3</sub>	125 mL	MSCU-10PPM-125ML
		500 mL	MSCU-10PPM-500ML
Germanium, Ge	HNO <sub>3</sub> / HF	125 mL	MSGE-10PPM-125ML
		500 mL	MSGE-10PPM-500ML
Gold, Au	HCl	125 mL	MSAU-10PPM-125ML
		500 mL	MSAU-10PPM-500ML
Hafnium, Hf	HNO <sub>3</sub> / HF	125 mL	MSHF-10PPM-125ML
		500 mL	MSHF-10PPM-500ML
Holmium, Ho	HNO <sub>3</sub>	125 mL	MSHO-10PPM-125ML
		500 mL	MSHO-10PPM-500ML
Indium, In	HNO <sub>3</sub>	125 mL	MSIN-10PPM-125ML
		500 mL	MSIN-10PPM-500ML
Iron, Fe	HNO <sub>3</sub>	125 mL	MSFE-10PPM-125ML
		500 mL	MSFE-10PPM-500ML
Lead, Pb	HNO <sub>3</sub>	125 mL	MSPB-10PPM-125ML
		500 mL	MSPB-10PPM-500ML
Lithium, Li	HNO <sub>3</sub>	125 mL	MSLI-10PPM-125ML
		500 mL	MSLI-10PPM-500ML
<sup>6</sup> Lithium, <sup>6</sup> Li	HNO <sub>3</sub>	125 mL	MS6LI-10PPM-125ML
		500 mL	MS6LI-10PPM-500ML
Magnesium, Mg	HNO <sub>3</sub>	125 mL	MSMG-10PPM-125ML
		500 mL	MSMG-10PPM-500ML
Manganese, Mn	HNO <sub>3</sub>	125 mL	MSMN-10PPM-125ML
		500 mL	MSMN-10PPM-500ML
Mercury, Hg	HCl	125 mL	MSHG-10PPM-125ML
		500 mL	MSHG-10PPM-500ML
Mercury, Hg	HNO <sub>3</sub>	125 mL	MSHGN-10PPM-125ML
		500 mL	MSHGN-10PPM-500ML

Custom 10 µg/mL standards are available upon request.

10 µg/mL

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



Custom 100 µg/mL standards are available upon request.

100 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Aluminum, Al	HNO <sub>3</sub>	125 mL	MSAL-100PPM-125ML
		500 mL	MSAL-100PPM-500ML
Antimony, Sb	HNO <sub>3</sub> / Tartaric Acid	125 mL	MSSB-100PPM-125ML
		500 mL	MSSB-100PPM-500ML
Arsenic, As	HNO <sub>3</sub>	125 mL	MSAS-100PPM-125ML
		500 mL	MSAS-100PPM-500ML
Barium, Ba	HNO <sub>3</sub>	125 mL	MSBA-100PPM-125ML
		500 mL	MSBA-100PPM-500ML
Beryllium, Be	HNO <sub>3</sub>	125 mL	MSBE-100PPM-125ML
		500 mL	MSBE-100PPM-500ML
Bismuth, Bi	HNO <sub>3</sub>	125 mL	MSBI-100PPM-125ML
		500 mL	MSBI-100PPM-500ML
Boron, B	HNO <sub>3</sub>	125 mL	MSB-100PPM-125ML
		500 mL	MSB-100PPM-500ML
Cadmium, Cd	HNO <sub>3</sub>	125 mL	MSCD-100PPM-125ML
		500 mL	MSCD-100PPM-500ML
Calcium, Ca	HNO <sub>3</sub>	125 mL	MSCA-100PPM-125ML
		500 mL	MSCA-100PPM-500ML
Cerium, Ce	HNO <sub>3</sub>	125 mL	MSCE-100PPM-125ML
		500 mL	MSCE-100PPM-500ML
Cesium, Cs	HNO <sub>3</sub>	125 mL	MSCS-100PPM-125ML
		500 mL	MSCS-100PPM-500ML
Chromium <sup>+3</sup> , Cr <sup>+3</sup>	HNO <sub>3</sub>	125 mL	MSCR(3)-100PPM-125ML
		500 mL	MSCR(3)-100PPM-500ML
Chromium <sup>+6</sup> , Cr <sup>+6</sup>	H <sub>2</sub> O	125 mL	MSCR(6)-100PPM-125ML
		500 mL	MSCR(6)-100PPM-500ML
Cobalt, Co	HNO <sub>3</sub>	125 mL	MSCO-100PPM-125ML
		500 mL	MSCO-100PPM-500ML
Copper, Cu	HNO <sub>3</sub>	125 mL	MSCU-100PPM-125ML
		500 mL	MSCU-100PPM-500ML
Germanium, Ge	HNO <sub>3</sub> / HF	125 mL	MSGE-100PPM-125ML
		500 mL	MSGE-100PPM-500ML
Gold, Au	HCl	125 mL	MSAU-100PPM-125ML
		500 mL	MSAU-100PPM-500ML
Hafnium, Hf	HNO <sub>3</sub> / HF	125 mL	MSHF-100PPM-125ML
		500 mL	MSHF-100PPM-500ML
Holmium, Ho	HNO <sub>3</sub>	125 mL	MSHO-100PPM-125ML
		500 mL	MSHO-100PPM-500ML
Indium, In	HNO <sub>3</sub>	125 mL	MSIN-100PPM-125ML
		500 mL	MSIN-100PPM-500ML
Iron, Fe	HNO <sub>3</sub>	125 mL	MSFE-100PPM-125ML
		500 mL	MSFE-100PPM-500ML
Lead, Pb	HNO <sub>3</sub>	125 mL	MSPB-100PPM-125ML
		500 mL	MSPB-100PPM-500ML
Lithium, Li	HNO <sub>3</sub>	125 mL	MSLI-100PPM-125ML
		500 mL	MSLI-100PPM-500ML
<sup>6</sup> Lithium, <sup>6</sup> Li	HNO <sub>3</sub>	125 mL	MS6LI-100PPM-125ML
		500 mL	MS6LI-100PPM-500ML
Magnesium, Mg	HNO <sub>3</sub>	125 mL	MSMG-100PPM-125ML
		500 mL	MSMG-100PPM-500ML
Manganese, Mn	HNO <sub>3</sub>	125 mL	MSMN-100PPM-125ML
		500 mL	MSMN-100PPM-500ML
Mercury, Hg	HCl	125 mL	MSHG-100PPM-125ML
		500 mL	MSHG-100PPM-500ML
Mercury, Hg	HNO <sub>3</sub>	125 mL	MSHGN-100PPM-125ML
		500 mL	MSHGN-100PPM-500ML

Custom 100 µg/mL standards are available upon request.

100 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Molybdenum, Mo	NH <sub>4</sub> OH	125 mL	MSMO-100PPM-125ML
		500 mL	MSMO-100PPM-500ML
Nickel, Ni	HNO <sub>3</sub>	125 mL	MSNI-100PPM-125ML
		500 mL	MSNI-100PPM-500ML
Osmium, Os	HCl	125 mL	MSOS-100PPM-125ML
		500 mL	MSOS-100PPM-500ML
Phosphorus, P	H <sub>2</sub> O	125 mL	MSP-100PPM-125ML
		500 mL	MSP-100PPM-500ML
Platinum, Pt	HCl	125 mL	MSPT-100PPM-125ML
		500 mL	MSPT-100PPM-500ML
Potassium, K	HNO <sub>3</sub>	125 mL	MSK-100PPM-125ML
		500 mL	MSK-100PPM-500ML
Rhodium, Rh	HCl	125 mL	MSRH-100PPM-125ML
		500 mL	MSRH-100PPM-500ML
Rhodium, Rh	HNO <sub>3</sub>	125 mL	MSRHN-100PPM-125ML
		500 mL	MSRHN-100PPM-500ML
Scandium, Sc	HNO <sub>3</sub>	125 mL	MSSC-100PPM-125ML
		500 mL	MSSC-100PPM-500ML
Selenium, Se	HNO <sub>3</sub>	125 mL	MSSE-100PPM-125ML
		500 mL	MSSE-100PPM-500ML
Silicon, Si	HNO <sub>3</sub> / HF	125 mL	MSSI-100PPM-125ML
		500 mL	MSSI-100PPM-500ML
Silver, Ag	HNO <sub>3</sub>	125 mL	MSAG-100PPM-125ML
		500 mL	MSAG-100PPM-500ML
Sodium, Na	HNO <sub>3</sub>	125 mL	MSNA-100PPM-125ML
		500 mL	MSNA-100PPM-500ML
Strontium, Sr	HNO <sub>3</sub>	125 mL	MSSR-100PPM-125ML
		500 mL	MSSR-100PPM-500ML
Sulfur, S	H <sub>2</sub> O	125 mL	MSS-100PPM-125ML
		500 mL	MSS-100PPM-500ML
Tellurium, Te	HNO <sub>3</sub>	125 mL	MSTEN-100PPM-125ML
		500 mL	MSTEN-100PPM-500ML
Terbium, Tb	HNO <sub>3</sub>	125 mL	MSTB-100PPM-125ML
		500 mL	MSTB-100PPM-500ML
Thallium, Tl	HNO <sub>3</sub>	125 mL	MSTL-100PPM-125ML
		500 mL	MSTL-100PPM-500ML
Thorium, Th	HNO <sub>3</sub>	125 mL	MSTH-100PPM-125ML
		500 mL	MSTH-100PPM-500ML
Tin, Sn	HNO <sub>3</sub> / HF	125 mL	MSSN-100PPM-125ML
		500 mL	MSSN-100PPM-500ML
Titanium, Ti	HNO <sub>3</sub> / HF	125 mL	MSTI-100PPM-125ML
		500 mL	MSTI-100PPM-500ML
Tungsten, W	HNO <sub>3</sub> / HF	125 mL	MSW-100PPM-125ML
		500 mL	MSW-100PPM-500ML
Uranium, U	HNO <sub>3</sub>	125 mL	MSU-100PPM-125ML
		500 mL	MSU-100PPM-500ML
Vanadium, V	HNO <sub>3</sub>	125 mL	MSV-100PPM-125ML
		500 mL	MSV-100PPM-500ML
Yttrium, Y	HNO <sub>3</sub>	125 mL	MSY-100PPM-125ML
		500 mL	MSY-100PPM-500ML
Zinc, Zn	HNO <sub>3</sub>	125 mL	MSZN-100PPM-125ML
		500 mL	MSZN-100PPM-500ML

## SINGLE-ELEMENT STANDARDS

1,000 µg/mL Standards

Custom 1,000 µg/mL standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Aluminum, Al</b>	HNO <sub>3</sub>	30 mL	CGAL1-30ML
		125 mL	CGAL1-125ML
		500 mL	CGAL1-500ML
<b>Aluminum, Al</b>	HCl	30 mL	CGALCL1-30ML
		125 mL	CGALCL1-125ML
		500 mL	CGALCL1-500ML
<b>Antimony, Sb</b>	HNO <sub>3</sub> / Tartaric Acid	30 mL	CGSB1-30ML
		125 mL	CGSB1-125ML
		500 mL	CGSB1-500ML
<b>Antimony, Sb</b>	HNO <sub>3</sub> / HF	30 mL	CGSBF1-30ML
		125 mL	CGSBF1-125ML
		500 mL	CGSBF1-500ML
<b>Arsenic, As</b>	HNO <sub>3</sub>	30 mL	CGAS1-30ML
		125 mL	CGAS1-125ML
		500 mL	CGAS1-500ML
<b>Arsenic<sup>+3</sup>, As<sup>+3</sup></b>	HCl / NaOH / NaHCO <sub>3</sub>	30 mL	CGAS(3)1-30ML
		125 mL	CGAS(3)1-125ML
		500 mL	CGAS(3)1-500ML
<b>Arsenic<sup>+5</sup>, As<sup>+5</sup></b>	H <sub>2</sub> O	30 mL	CGAS(5)1-30ML
		125 mL	CGAS(5)1-125ML
		500 mL	CGAS(5)1-500ML
<b>Barium, Ba</b>	HNO <sub>3</sub>	30 mL	CGBA1-30ML
		125 mL	CGBA1-125ML
		500 mL	CGBA1-500ML
<b>Beryllium, Be</b>	HNO <sub>3</sub>	30 mL	CGBE1-30ML
		125 mL	CGBE1-125ML
		500 mL	CGBE1-500ML
<b>Bismuth, Bi</b> Can be used as an Internal Standard for ICP-MS.	HNO <sub>3</sub>	30 mL	CGB11-30ML
		125 mL	CGB11-125ML
		500 mL	CGB11-500ML
<b>Boron, B</b>	NH <sub>4</sub> OH	30 mL	CGB1-30ML
		125 mL	CGB1-125ML
		500 mL	CGB1-500ML
<b>Bromide, Br-</b> To be used for analyzing Bromide by ICP-OES.	H <sub>2</sub> O	30 mL	CGICBR1-30ML
		125 mL	CGICBR1-125ML
		500 mL	CGICBR1-500ML
<b>Cadmium, Cd</b>	HNO <sub>3</sub>	30 mL	CGCD1-30ML
		125 mL	CGCD1-125ML
		500 mL	CGCD1-500ML
<b>Calcium, Ca</b>	HNO <sub>3</sub>	30 mL	CGCA1-30ML
		125 mL	CGCA1-125ML
		500 mL	CGCA1-500ML
<b>Carbon, C</b> No metallic impurities.	HNO <sub>3</sub>	30 mL	CGC1-30ML
		125 mL	CGC1-125ML
		500 mL	CGC1-500ML
<b>Carbon, C</b> To be used for TOC as per standard methods.	H <sub>2</sub> O	125 mL	TOCKHP1-125ML
		500 mL	TOCKHP1-500ML
<b>Cerium, Ce</b>	HNO <sub>3</sub>	30 mL	CGCE1-30ML
		125 mL	CGCE1-125ML
		500 mL	CGCE1-500ML

Custom 1,000 µg/mL standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Cesium, Cs</b>	HNO <sub>3</sub>	30 mL	CGCS1-30ML
		125 mL	CGCS1-125ML
		500 mL	CGCS1-500ML
<b>Chloride, Cl<sup>-</sup></b> To be used for analyzing Chloride by ICP-OES.	H <sub>2</sub> O	30 mL	CGICCL1-30ML
		125 mL	CGICCL1-125ML
		500 mL	CGICCL1-500ML
<b>Chromium<sup>+3</sup>, Cr<sup>+3</sup></b>	HNO <sub>3</sub>	30 mL	CGCR(3)1-30ML
		125 mL	CGCR(3)1-125ML
		500 mL	CGCR(3)1-500ML
<b>Chromium<sup>+6</sup>, Cr<sup>+6</sup></b>	H <sub>2</sub> O	30 mL	CGCR(6)1-30ML
		125 mL	CGCR(6)1-125ML
		500 mL	CGCR(6)1-500ML
<b>Cobalt, Co</b>	HNO <sub>3</sub>	30 mL	CGCO1-30ML
		125 mL	CGCO1-125ML
		500 mL	CGCO1-500ML
<b>Copper, Cu</b>	HNO <sub>3</sub>	30 mL	CGCU1-30ML
		125 mL	CGCU1-125ML
		500 mL	CGCU1-500ML
<b>Dysprosium, Dy</b>	HNO <sub>3</sub>	30 mL	CGDY1-30ML
		125 mL	CGDY1-125ML
		500 mL	CGDY1-500ML
<b>Erbium, Er</b>	HNO <sub>3</sub>	30 mL	CGER1-30ML
		125 mL	CGER1-125ML
		500 mL	CGER1-500ML
<b>Europium, Eu</b>	HNO <sub>3</sub>	30 mL	CGEU1-30ML
		125 mL	CGEU1-125ML
		500 mL	CGEU1-500ML
<b>Gadolinium, Gd</b>	HNO <sub>3</sub>	30 mL	CGGD1-30ML
		125 mL	CGGD1-125ML
		500 mL	CGGD1-500ML
<b>Gallium, Ga</b>	HNO <sub>3</sub>	30 mL	CGGA1-30ML
		125 mL	CGGA1-125ML
		500 mL	CGGA1-500ML
<b>Germanium, Ge</b>	HNO <sub>3</sub> / HF	30 mL	CGGE1-30ML
		125 mL	CGGE1-125ML
		500 mL	CGGE1-500ML
<b>Gold, Au</b> Can be used to stabilize low-level Hg for ICP-MS.	HCl	30 mL	CGAU1-30ML
		125 mL	CGAU1-125ML
		500 mL	CGAU1-500ML
<b>Gold, Au</b>	HNO <sub>3</sub>	30 mL	CGAUN1-30ML
		125 mL	CGAUN1-125ML
		500 mL	CGAUN1-500ML
<b>Hafnium, Hf</b>	HNO <sub>3</sub> / HF	30 mL	CGHF1-30ML
		125 mL	CGHF1-125ML
		500 mL	CGHF1-500ML
<b>Holmium, Ho</b> Can be used as an Internal Standard for ICP-MS.	HNO <sub>3</sub>	30 mL	CGHO1-30ML
		125 mL	CGHO1-125ML
		500 mL	CGHO1-500ML



## SINGLE-ELEMENT STANDARDS

1,000 µg/mL Standards

Custom 1,000 µg/mL standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Indium, In</b> Can be used as an Internal Standard for ICP-MS.	HNO <sub>3</sub>	30 mL	CGIN1-30ML
		125 mL	CGIN1-125ML
		500 mL	CGIN1-500ML
<b>Iodide, I<sup>-</sup></b> Can be used for analyzing Iodide by ICP-OES.	H <sub>2</sub> O / stabilizer	30 mL	CGIC11-30ML
		125 mL	CGIC11-125ML
		500 mL	CGIC11-500ML
<b>Iridium, Ir</b>	HCl	30 mL	CGIR1-30ML
		125 mL	CGIR1-125ML
		500 mL	CGIR1-500ML
<b>Iron, Fe</b>	HNO <sub>3</sub>	30 mL	CGFE1-30ML
		125 mL	CGFE1-125ML
		500 mL	CGFE1-500ML
<b>Lanthanum, La</b>	HNO <sub>3</sub>	30 mL	CGLA1-30ML
		125 mL	CGLA1-125ML
		500 mL	CGLA1-500ML
<b>Lead, Pb</b>	HNO <sub>3</sub>	30 mL	CGPB1-30ML
		125 mL	CGPB1-125ML
		500 mL	CGPB1-500ML
<b>Lithium, Li</b>	HNO <sub>3</sub>	30 mL	CGLI1-30ML
		125 mL	CGLI1-125ML
		500 mL	CGLI1-500ML
<b><sup>6</sup>Lithium, <sup>6</sup>Li</b> Can be used as an Internal Standard for ICP-MS.	HNO <sub>3</sub>	30 mL	CG6LI1-30ML
		125 mL	CG6LI1-125ML
		500 mL	CG6LI1-500ML
<b>Lutetium, Lu</b>	HNO <sub>3</sub>	30 mL	CGLU1-30ML
		125 mL	CGLU1-125ML
		500 mL	CGLU1-500ML
<b>Magnesium, Mg</b>	HNO <sub>3</sub>	30 mL	CGMG1-30ML
		125 mL	CGMG1-125ML
		500 mL	CGMG1-500ML
<b>Manganese, Mn</b>	HNO <sub>3</sub>	30 mL	CGMN1-30ML
		125 mL	CGMN1-125ML
		500 mL	CGMN1-500ML
<b>Mercury, Hg</b>	HNO <sub>3</sub>	30 mL	CGHG1-30ML
		125 mL	CGHG1-125ML
		500 mL	CGHG1-500ML
<b>Molybdenum, Mo</b>	NH <sub>4</sub> OH	30 mL	CGMO1-30ML
		125 mL	CGMO1-125ML
		500 mL	CGMO1-500ML
<b>Neodymium, Nd</b>	HNO <sub>3</sub>	30 mL	CGND1-30ML
		125 mL	CGND1-125ML
		500 mL	CGND1-500ML
<b>Nickel, Ni</b>	HNO <sub>3</sub>	30 mL	CGNI1-30ML
		125 mL	CGNI1-125ML
		500 mL	CGNI1-500ML
<b>Niobium, Nb</b>	HNO <sub>3</sub> / HF	30 mL	CGNB1-30ML
		125 mL	CGNB1-125ML
		500 mL	CGNB1-500ML

Custom 1,000 µg/mL standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Niobium, Nb</b> High purity, low Tantalum	HNO <sub>3</sub> / HF	130 mL	CGNB2051-30ML
		125 mL	CGNB2051-125ML
		500 mL	CGNB2051-500ML
<b>Osmium, Os</b>	HCl	30 mL	CGOS1-30ML
		125 mL	CGOS1-125ML
		500 mL	CGOS1-500ML
<b>Palladium, Pd</b>	HCl	30 mL	CGPD1-30ML
		125 mL	CGPD1-125ML
		500 mL	CGPD1-500ML
<b>Palladium, Pd</b>	HNO <sub>3</sub>	30 mL	CGPDN1-30ML
		125 mL	CGPDN1-125ML
		500 mL	CGPDN1-500ML
<b>Phosphorus, P</b>	H <sub>2</sub> O	30 mL	CGP1-30ML
		125 mL	CGP1-125ML
		500 mL	CGP1-500ML
<b>Platinum, Pt</b>	HNO <sub>3</sub> / HCl	30 mL	CGPTN1-30ML
		125 mL	CGPTN1-125ML
		500 mL	CGPTN1-500ML
<b>Platinum, Pt</b>	HCl	30 mL	CGPT1-30ML
		125 mL	CGPT1-125ML
		500 mL	CGPT1-500ML
<b>Platinum, Pt</b> Chloride Free	HNO <sub>3</sub>	30 mL	CGPTNO31-30ML
		125 mL	CGPTNO31-125ML
		500 mL	CGPTNO31-500ML
<b>Potassium, K</b>	HNO <sub>3</sub>	30 mL	CGK1-30ML
		125 mL	CGK1-125ML
		500 mL	CGK1-500ML
<b>Praseodymium, Pr</b>	HNO <sub>3</sub>	30 mL	CGPR1-30ML
		125 mL	CGPR1-125ML
		500 mL	CGPR1-500ML
<b>Rhenium, Re</b>	HNO <sub>3</sub>	30 mL	CGRE1-30ML
		125 mL	CGRE1-125ML
		500 mL	CGRE1-500ML
<b>Rhodium, Rh</b> Can be used as an Internal Standard for ICP-MS.	HCl	30 mL	CGRH1-30ML
		125 mL	CGRH1-125ML
		500 mL	CGRH1-500ML
<b>Rhodium, Rh</b> Can be used as an Internal Standard for ICP-MS.	HNO <sub>3</sub>	30 mL	CGRHN1-30ML
		125 mL	CGRHN1-125ML
		500 mL	CGRHN1-500ML
<b>Rubidium, Rb</b>	HNO <sub>3</sub>	30 mL	CGRB1-30ML
		125 mL	CGRB1-125ML
		500 mL	CGRB1-500ML
<b>Ruthenium, Ru</b>	HCl	30 mL	CGRU1-30ML
		125 mL	CGRU1-125ML
		500 mL	CGRU1-500ML
<b>Samarium, Sm</b>	HNO <sub>3</sub>	30 mL	CGSM1-30ML
		125 mL	CGSM1-125ML
		500 mL	CGSM1-500ML

## SINGLE-ELEMENT STANDARDS

1,000 µg/mL Standards

Custom 1,000 µg/mL standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Scandium, Sc</b> Can be used as an Internal Standard for ICP-MS.	HNO <sub>3</sub>	30 mL	CGSC1-30ML
		125 mL	CGSC1-125ML
		500 mL	CGSC1-500ML
<b>Selenium<sup>+4</sup>, Se<sup>+4</sup></b>	HNO <sub>3</sub>	30 mL	CGSE(4)1-30ML
		125 mL	CGSE(4)1-125ML
		500 mL	CGSE(4)1-500ML
<b>Selenium<sup>+6</sup>, Se<sup>+6</sup></b>	H <sub>2</sub> O	30 mL	CGSE(6)1-30ML
		125 mL	CGSE(6)1-125ML
		500 mL	CGSE(6)1-500ML
<b>Silica, SiO<sub>2</sub></b>	HNO <sub>3</sub> / HF	30 mL	CGSIO1-30ML
		125 mL	CGSIO1-125ML
		500 mL	CGSIO1-500ML
<b>Silica, SiO<sub>2</sub></b>	NaOH	30 mL	CGSIONA1-30ML
		125 mL	CGSIONA1-125ML
		500 mL	CGSIONA1-500ML
<b>Silicon, Si</b>	HNO <sub>3</sub> / HF	30 mL	CGSI1-30ML
		125 mL	CGSI1-125ML
		500 mL	CGSI1-500ML
<b>Silicon, Si</b>	NaOH	30 mL	CGSINA1-30ML
		125 mL	CGSINA1-125ML
		500 mL	CGSINA1-500ML
<b>Silver, Ag</b>	HNO <sub>3</sub>	30 mL	CGAG1-30ML
		125 mL	CGAG1-125ML
		500 mL	CGAG1-500ML
<b>Sodium, Na</b>	HNO <sub>3</sub>	30 mL	CGNA1-30ML
		125 mL	CGNA1-125ML
		500 mL	CGNA1-500ML
<b>Strontium, Sr</b>	HNO <sub>3</sub>	30 mL	CGSR1-30ML
		125 mL	CGSR1-125ML
		500 mL	CGSR1-500ML
<b>Sulfur, S</b> Prevents incompatibility issues when mixing with Ba and Pb.	H <sub>2</sub> O	30 mL	CGMSA1-30ML
		125 mL	CGMSA1-125ML
		500 mL	CGMSA1-500ML
<b>Sulfur, S</b>	H <sub>2</sub> O	30 mL	CGS1-30ML
		125 mL	CGS1-125ML
		500 mL	CGS1-500ML
<b>Tantalum, Ta</b>	HNO <sub>3</sub> / HF	30 mL	CGTA1-30ML
		125 mL	CGTA1-125ML
		500 mL	CGTA1-500ML
<b>Tellurium, Te</b>	HCl	30 mL	CGTE1-30ML
		125 mL	CGTE1-125ML
		500 mL	CGTE1-500ML
<b>Tellurium, Te</b>	HNO <sub>3</sub>	30 mL	CGTEN1-30ML
		125 mL	CGTEN1-125ML
		500 mL	CGTEN1-500ML
<b>Terbium, Tb</b> Can be used as an Internal Standard for ICP-MS.	HNO <sub>3</sub>	30 mL	CGTB1-30ML
		125 mL	CGTB1-125ML
		500 mL	CGTB1-500ML

Custom 1,000 µg/mL standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Thallium, Tl</b>	HNO <sub>3</sub>	30 mL	CGTL1-30ML
		125 mL	CGTL1-125ML
		500 mL	CGTL1-500ML
<b>Thorium, Th</b>	HNO <sub>3</sub>	30 mL	CGTH1-30ML
		125 mL	CGTH1-125ML
		500 mL	CGTH1-500ML
<b>Thulium, Tm</b>	HNO <sub>3</sub>	30 mL	CGTM1-30ML
		125 mL	CGTM1-125ML
		500 mL	CGTM1-500ML
<b>Tin, Sn</b>	HCl	30 mL	CGSNCL1-30ML
		125 mL	CGSNCL1-125ML
		500 mL	CGSNCL1-500ML
<b>Tin, Sn</b>	HNO <sub>3</sub> / HF	30 mL	CGSN1-30ML
		125 mL	CGSN1-125ML
		500 mL	CGSN1-500ML
<b>Titanium, Ti</b>	HNO <sub>3</sub> / HF	30 mL	CGT11-30ML
		125 mL	CGT11-125ML
		500 mL	CGT11-500ML
<b>Tungsten, W</b>	HNO <sub>3</sub> / HF	30 mL	CGW1-30ML
		125 mL	CGW1-125ML
		500 mL	CGW1-500ML
<b>Tungsten, W</b>	H <sub>2</sub> O	30 mL	CGWH201-30ML
		125 mL	CGWH201-125ML
		500 mL	CGWH201-500ML
<b>Uranium, U</b>	HNO <sub>3</sub>	30 mL	CGU1-30ML
		125 mL	CGU1-125ML
		500 mL	CGU1-500ML
<b>Vanadium, V</b>	HNO <sub>3</sub>	30 mL	CGV1-30ML
		125 mL	CGV1-125ML
		500 mL	CGV1-500ML
<b>Ytterbium, Yb</b>	HNO <sub>3</sub>	30 mL	CGYB1-30ML
		125 mL	CGYB1-125ML
		500 mL	CGYB1-500ML
<b>Yttrium, Y</b> <small>Can be used as an Internal Standard for ICP-MS.</small>	HNO <sub>3</sub>	30 mL	CGY1-30ML
		125 mL	CGY1-125ML
		500 mL	CGY1-500ML
<b>Zinc, Zn</b>	HNO <sub>3</sub>	30 mL	CGZN1-30ML
		125 mL	CGZN1-125ML
		500 mL	CGZN1-500ML
<b>Zirconium, Zr</b>	HF	30 mL	CGZR1-30ML
		125 mL	CGZR1-125ML
		500 mL	CGZR1-500ML

See pg. 29 for our HF-free Zirconium, part number CGZRCL10-125ML or CGZRCL10-500ML.

## SINGLE-ELEMENT STANDARDS

10,000 µg/mL Standards

Custom 10,000 µg/mL standards are available upon request.

10,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Aluminum, Al</b>	HNO <sub>3</sub>	30 mL	CGAL10-30ML
		125 mL	CGAL10-125ML
		500 mL	CGAL10-500ML
<b>Antimony, Sb</b>	HNO <sub>3</sub> / Tartaric Acid	30 mL	CGSB10-30ML
		125 mL	CGSB10-125ML
		500 mL	CGSB10-500ML
<b>Arsenic, As</b>	HNO <sub>3</sub>	30 mL	CGAS10-30ML
		125 mL	CGAS10-125ML
		500 mL	CGAS10-500ML
<b>Barium, Ba</b>	HNO <sub>3</sub>	30 mL	CGBA10-30ML
		125 mL	CGBA10-125ML
		500 mL	CGBA10-500ML
<b>Beryllium, Be</b>	HNO <sub>3</sub>	30 mL	CGBE10-30ML
		125 mL	CGBE10-125ML
		500 mL	CGBE10-500ML
<b>Bismuth, Bi</b>	HNO <sub>3</sub>	30 mL	CGBI10-30ML
		125 mL	CGBI10-125ML
		500 mL	CGBI10-500ML
<b>Boron, B</b>	NH <sub>4</sub> OH	30 mL	CGB10-30ML
		125 mL	CGB10-125ML
		500 mL	CGB10-500ML
<b>Cadmium, Cd</b>	HNO <sub>3</sub>	30 mL	CGCD10-30ML
		125 mL	CGCD10-125ML
		500 mL	CGCD10-500ML
<b>Calcium, Ca</b>	HNO <sub>3</sub>	30 mL	CGCA10-30ML
		125 mL	CGCA10-125ML
		500 mL	CGCA10-500ML
<b>Carbon, C</b>	HNO <sub>3</sub>	30 mL	CGC10-30ML
		125 mL	CGC10-125ML
		500 mL	CGC10-500ML
<b>Cerium, Ce</b>	HNO <sub>3</sub>	30 mL	CGCE10-30ML
		125 mL	CGCE10-125ML
		500 mL	CGCE10-500ML
<b>Cesium, Cs</b>	HNO <sub>3</sub>	30 mL	CGCS10-30ML
		125 mL	CGCS10-125ML
		500 mL	CGCS10-500ML
<b>Chromium<sup>+3</sup>, Cr<sup>+3</sup></b>	HNO <sub>3</sub>	30 mL	CGCR(3)10-30ML
		125 mL	CGCR(3)10-125ML
		500 mL	CGCR(3)10-500ML
<b>Cobalt, Co</b> Can be used as an Internal Standard for ICP-OES.	HNO <sub>3</sub>	30 mL	CGCO10-30ML
		125 mL	CGCO10-125ML
		500 mL	CGCO10-500ML
<b>Copper, Cu</b>	HNO <sub>3</sub>	30 mL	CGCU10-30ML
		125 mL	CGCU10-125ML
		500 mL	CGCU10-500ML
<b>Dysprosium, Dy</b>	HNO <sub>3</sub>	30 mL	CGDY10-30ML
		125 mL	CGDY10-125ML
		500 mL	CGDY10-500ML
<b>Erbium, Er</b>	HNO <sub>3</sub>	30 mL	CGER10-30ML
		125 mL	CGER10-125ML
		500 mL	CGER10-500ML

Custom 10,000 µg/mL standards are available upon request.

10,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Europium, Eu</b>	HNO <sub>3</sub>	30 mL	CGEU10-30ML
		125 mL	CGEU10-125ML
		500 mL	CGEU10-500ML
<b>Gadolinium, Gd</b>	HNO <sub>3</sub>	30 mL	CGGD10-30ML
		125 mL	CGGD10-125ML
		500 mL	CGGD10-500ML
<b>Gallium, Ga</b>	HNO <sub>3</sub>	30 mL	CGGA10-30ML
		125 mL	CGGA10-125ML
		500 mL	CGGA10-500ML
<b>Germanium, Ge</b>	HNO <sub>3</sub> / HF	30 mL	CGGE10-30ML
		125 mL	CGGE10-125ML
		500 mL	CGGE10-500ML
<b>Gold, Au</b>	HCl	30 mL	CGAU10-30ML
		125 mL	CGAU10-125ML
		500 mL	CGAU10-500ML
<b>Hafnium, Hf</b>	HNO <sub>3</sub> / HF	30 mL	CGHF10-30ML
		125 mL	CGHF10-125ML
		500 mL	CGHF10-500ML
<b>Holmium, Ho</b>	HNO <sub>3</sub>	30 mL	CGHO10-30ML
		125 mL	CGHO10-125ML
		500 mL	CGHO10-500ML
<b>Indium, In</b> Can be used as an Internal Standard for ICP-OES.	HNO <sub>3</sub>	30 mL	CGIN10-30ML
		125 mL	CGIN10-125ML
		500 mL	CGIN10-500ML
<b>Iridium, Ir</b>	HCl	30 mL	CGIR10-30ML
		125 mL	CGIR10-125ML
		500 mL	CGIR10-500ML
<b>Iron, Fe</b>	HNO <sub>3</sub>	30 mL	CGFE10-30ML
		125 mL	CGFE10-125ML
		500 mL	CGFE10-500ML
<b>Lanthanum, La</b>	HNO <sub>3</sub>	30 mL	CGLA10-30ML
		125 mL	CGLA10-125ML
		500 mL	CGLA10-500ML
<b>Lead, Pb</b>	HNO <sub>3</sub>	30 mL	CGPB10-30ML
		125 mL	CGPB10-125ML
		500 mL	CGPB10-500ML
<b>Lithium, Li</b>	HNO <sub>3</sub>	30 mL	CGLI10-30ML
		125 mL	CGLI10-125ML
		500 mL	CGLI10-500ML
<b>Lutetium, Lu</b>	HNO <sub>3</sub>	30 mL	CGLU10-30ML
		125 mL	CGLU10-125ML
		500 mL	CGLU10-500ML
<b>Magnesium, Mg</b>	HNO <sub>3</sub>	30 mL	CGMG10-30ML
		125 mL	CGMG10-125ML
		500 mL	CGMG10-500ML
<b>Manganese, Mn</b>	HNO <sub>3</sub>	30 mL	CGMN10-30ML
		125 mL	CGMN10-125ML
		500 mL	CGMN10-500ML
<b>Mercury, Hg</b>	HNO <sub>3</sub>	30 mL	CGHG10-30ML
		125 mL	CGHG10-125ML
		500 mL	CGHG10-500ML



## SINGLE-ELEMENT STANDARDS

10,000 µg/mL Standards

Custom 10,000 µg/mL standards are available upon request.

10,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Molybdenum, Mo</b>	NH <sub>4</sub> OH	30 mL	CGM010-30ML
		125 mL	CGM010-125ML
		500 mL	CGM010-500ML
<b>Neodymium, Nd</b>	HNO <sub>3</sub>	30 mL	CGND10-30ML
		125 mL	CGND10-125ML
		500 mL	CGND10-500ML
<b>Nickel, Ni</b>	HNO <sub>3</sub>	30 mL	CGNI10-30ML
		125 mL	CGNI10-125ML
		500 mL	CGNI10-500ML
<b>Niobium, Nb</b>	HNO <sub>3</sub> / HF	30 mL	CGNB10-30ML
		125 mL	CGNB10-125ML
		500 mL	CGNB10-500ML
<b>Niobium, Nb</b> High purity, low Tantalum	HNO <sub>3</sub> / HF	30 mL	CGNB20510-30ML
		125 mL	CGNB20510-125ML
		500 mL	CGNB20510-500ML
<b>Palladium, Pd</b>	HCl	30 mL	CGPD10-30ML
		125 mL	CGPD10-125ML
		500 mL	CGPD10-500ML
<b>Phosphorus, P</b>	H <sub>2</sub> O	30 mL	CGP10-30ML
		125 mL	CGP10-125ML
		500 mL	CGP10-500ML
<b>Platinum, Pt</b>	HCl	30 mL	CGPT10-30ML
		125 mL	CGPT10-125ML
		500 mL	CGPT10-500ML
<b>Potassium, K</b>	HNO <sub>3</sub>	30 mL	CGK10-30ML
		125 mL	CGK10-125ML
		500 mL	CGK10-500ML
<b>Praseodymium, Pr</b>	HNO <sub>3</sub>	30 mL	CGPR10-30ML
		125 mL	CGPR10-125ML
		500 mL	CGPR10-500ML
<b>Rhenium, Re</b>	HNO <sub>3</sub>	30 mL	CGRE10-30ML
		125 mL	CGRE10-125ML
		500 mL	CGRE10-500ML
<b>Rhodium, Rh</b>	HCl	30 mL	CGRH10-30ML
		125 mL	CGRH10-125ML
		500 mL	CGRH10-500ML
<b>Rubidium, Rb</b>	HNO <sub>3</sub>	30 mL	CGRB10-30ML
		125 mL	CGRB10-125ML
		500 mL	CGRB10-500ML
<b>Ruthenium, Ru</b>	HCl	30 mL	CGRU10-30ML
		125 mL	CGRU10-125ML
		500 mL	CGRU10-500ML
<b>Samarium, Sm</b>	HNO <sub>3</sub>	30 mL	CGSM10-30ML
		125 mL	CGSM10-125ML
		500 mL	CGSM10-500ML
<b>Scandium, Sc</b> Can be used as an Internal Standard for ICP-OES.	HNO <sub>3</sub>	30 mL	CGSC10-30ML
		125 mL	CGSC10-125ML
		500 mL	CGSC10-500ML
<b>Selenium, Se</b>	HNO <sub>3</sub>	30 mL	CGSE10-30ML
		125 mL	CGSE10-125ML
		500 mL	CGSE10-500ML

Custom 10,000 µg/mL standards are available upon request.

10,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Silicon, Si</b>	HNO <sub>3</sub> / HF	30 mL	CGSI10-30ML
		125 mL	CGSI10-125ML
		500 mL	CGSI10-500ML
<b>Silver, Ag</b>	HNO <sub>3</sub>	30 mL	CGAG10-30ML
		125 mL	CGAG10-125ML
		500 mL	CGAG10-500ML
<b>Sodium, Na</b>	HNO <sub>3</sub>	30 mL	CGNA10-30ML
		125 mL	CGNA10-125ML
		500 mL	CGNA10-500ML
<b>Strontium, Sr</b>	HNO <sub>3</sub>	30 mL	CGSR10-30ML
		125 mL	CGSR10-125ML
		500 mL	CGSR10-500ML
<b>Sulfur, S</b> Prevents incompatibility issues when mixing with Ba and Pb.	H <sub>2</sub> O	30 mL	CGMSA10-30ML
		125 mL	CGMSA10-125ML
		500 mL	CGMSA10-500ML
<b>Sulfur, S</b>	H <sub>2</sub> O	30 mL	CGS10-30ML
		125 mL	CGS10-125ML
		500 mL	CGS10-500ML
<b>Tantalum, Ta</b>	HNO <sub>3</sub> / HF	30 mL	CGTA10-30ML
		125 mL	CGTA10-125ML
		500 mL	CGTA10-500ML
<b>Tellurium, Te</b>	HCl	30 mL	CGTE10-30ML
		125 mL	CGTE10-125ML
		500 mL	CGTE10-500ML
<b>Terbium, Tb</b>	HNO <sub>3</sub>	30 mL	CGTB10-30ML
		125 mL	CGTB10-125ML
		500 mL	CGTB10-500ML
<b>Thallium, Tl</b>	HNO <sub>3</sub>	30 mL	CGTL10-30ML
		125 mL	CGTL10-125ML
		500 mL	CGTL10-500ML
<b>Thorium, Th</b>	HNO <sub>3</sub>	30 mL	CGTH10-30ML
		125 mL	CGTH10-125ML
		500 mL	CGTH10-500ML
<b>Thulium, Tm</b>	HNO <sub>3</sub>	30 mL	CGTM10-30ML
		125 mL	CGTM10-125ML
		500 mL	CGTM10-500ML
<b>Tin, Sn</b>	HNO <sub>3</sub> / HF	30 mL	CGSN10-30ML
		125 mL	CGSN10-125ML
		500 mL	CGSN10-500ML
<b>Titanium, Ti</b>	HNO <sub>3</sub> / HF	30 mL	CGTI10-30ML
		125 mL	CGTI10-125ML
		500 mL	CGTI10-500ML
<b>Tungsten, W</b>	HNO <sub>3</sub> / HF	30 mL	CGW10-30ML
		125 mL	CGW10-125ML
		500 mL	CGW10-500ML
<b>Uranium, U</b>	HNO <sub>3</sub>	30 mL	CGU10-30ML
		125 mL	CGU10-125ML
		500 mL	CGU10-500ML
<b>Vanadium, V</b>	HNO <sub>3</sub>	30 mL	CGV10-30ML
		125 mL	CGV10-125ML
		500 mL	CGV10-500ML

## SINGLE-ELEMENT STANDARDS

10,000 µg/mL Standards

Custom 10,000 µg/mL standards are available upon request.

10,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
<b>Ytterbium, Yb</b>	HNO <sub>3</sub>	30 mL	CGYB10-30ML
		125 mL	CGYB10-125ML
		500 mL	CGYB10-500ML
<b>Yttrium, Y</b> Can be used as an Internal Standard for ICP-OES.	HNO <sub>3</sub>	30 mL	CGY10-30ML
		125 mL	CGY10-125ML
		500 mL	CGY10-500ML
<b>Zinc, Zn</b>	HNO <sub>3</sub>	30 mL	CGZN10-30ML
		125 mL	CGZN10-125ML
		500 mL	CGZN10-500ML
<b>Zirconium, Zr</b>	HF	30 mL	CGZR10-30ML
		125 mL	CGZR10-125ML
		500 mL	CGZR10-500ML
<b>Zirconium, Zr</b> HF free	HCl	30 mL	CGZRCL10-30ML
		125 mL	CGZRCL10-125ML
		500 mL	CGZRCL10-500ML



## Inorganic Ventures' Annual ICP Conference

Calling all ICP users — don't miss our annual ICP Conference held in the fall. You will hear from Inorganic Ventures' experts on a wide range of topics, including Sample Preparation Basics for ICP, Sample and CRM Stability Considerations, Trace Metals Analysis and much more.

For more information, visit [inorganicventures.com/ICP](https://www.inorganicventures.com/ICP).

## Isotopic Standards

ANALYTE	$\mu\text{g/mL}$	MATRIX	VOLUME	CATALOG #
<sup>10</sup> Boron, <sup>10</sup> B	10	HNO <sub>3</sub>	100 mL	MS10B-10PPM-100ML
<sup>11</sup> Boron, <sup>11</sup> B	10	HNO <sub>3</sub>	100 mL	MS11B-10PPM-100ML
<sup>6</sup> Lithium, <sup>6</sup> Li	10	HNO <sub>3</sub>	125 mL 500 mL	MS6LI-10PPM-125ML MS6LI-10PPM-500ML
<sup>6</sup> Lithium, <sup>6</sup> Li	100	HNO <sub>3</sub>	125 mL 500 mL	MS6LI-100PPM-125ML MS6LI-100PPM-500ML
<sup>6</sup> Lithium, <sup>6</sup> Li Can be used as an Internal Standard for ICP-MS.	1,000	HNO <sub>3</sub>	30 mL 125 mL 500 mL	CG6LI1-30ML CG6LI1-125ML CG6LI1-500ML

## Mercury Standards

Custom mercury standards are available upon request.

100 ppb ( $\mu\text{g/L}$ )

ANALYTE	ppb ( $\mu\text{g/L}$ )	MATRIX	VOLUME	CATALOG #
Mercury, Hg	100	7% v/v HNO <sub>3</sub>	125 mL 500 mL	IV-STOCK-72-125ML IV-STOCK-72-500ML
Mercury, Hg	100	10% v/v HCl	125 mL 500 mL	IV-STOCK-73-125ML IV-STOCK-73-500ML

## SPECIATION STANDARDS

## Speciation Standards

Custom speciation standards are available upon request.

ANALYTE	µg/mL	MATRIX	VOLUME	CATALOG #
<b>Arsenic<sup>+3</sup>, As<sup>+3</sup></b>	1,000	HCl / NaOH / NaHCO <sub>3</sub>	30 mL	CGAS(3)1-30ML
			125 mL	CGAS(3)1-125ML
			500 mL	CGAS(3)1-500ML
<b>Arsenic<sup>+5</sup>, As<sup>+5</sup></b>	1,000	H <sub>2</sub> O	30 mL	CGAS(5)1-30ML
			125 mL	CGAS(5)1-125ML
			500 mL	CGAS(5)1-500ML
<b>Chromium<sup>+3</sup>, Cr<sup>+3</sup></b>	10	HNO <sub>3</sub>	125 mL	MSCR(3)-10PPM-125ML
			500 mL	MSCR(3)-10PPM-500ML
<b>Chromium<sup>+3</sup>, Cr<sup>+3</sup></b>	100	HNO <sub>3</sub>	125 mL	MSCR(3)-100PPM-125ML
			500 mL	MSCR(3)-100PPM-500ML
<b>Chromium<sup>+3</sup>, Cr<sup>+3</sup></b>	1,000	HNO <sub>3</sub>	30 mL	CGCR(3)1-30ML
			125 mL	CGCR(3)1-125ML
			500 mL	CGCR(3)1-500ML
<b>Chromium<sup>+3</sup>, Cr<sup>+3</sup></b>	10,000	HNO <sub>3</sub>	30 mL	CGCR(3)10-30ML
			125 mL	CGCR(3)10-125ML
			500 mL	CGCR(3)10-500ML
<b>Chromium<sup>+6</sup>, Cr<sup>+6</sup></b>	10	H <sub>2</sub> O	125 mL	MSCR(6)-10PPM-125ML
			500 mL	MSCR(6)-10PPM-500ML
<b>Chromium<sup>+6</sup>, Cr<sup>+6</sup></b>	100	H <sub>2</sub> O	125 mL	MSCR(6)-100PPM-125ML
			500 mL	MSCR(6)-100PPM-500ML
<b>Chromium<sup>+6</sup>, Cr<sup>+6</sup></b>	1,000	H <sub>2</sub> O	30 mL	CGCR(6)1-30ML
			125 mL	CGCR(6)1-125ML
			500 mL	CGCR(6)1-500ML
<b>Selenium<sup>+6</sup>, Se<sup>+6</sup></b>	1,000	H <sub>2</sub> O	30 mL	CGSE(6)1-30ML
			125 mL	CGSE(6)1-125ML
			500 mL	CGSE(6)1-500ML

## Cyanide Standards

Custom cyanide standards are available upon request.

1,000 µg/mL

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

Inorganic Ventures is not affiliated with the companies and brands referenced on these pages (other than Inorganic Ventures), and their names and marks are owned by the respective company and/or brand. The names appear solely for the purpose of permitting cross-referencing and comparison of products and standards.

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

Agilent/Varian <b>AV</b>		
Agilent/Varian#	Inorganic Ventures#	Page
5183-4681	<b>IV-STOCK-53</b>	p.41
5183-4688	<b>IV-STOCK-50</b>	p.41
5185-5959	<b>IV-STOCK-74</b>	p.42
5188-6524	<b>IV-STOCK-51</b>	p.41
5188-6525	IV-STOCK-75	p.42
5188-6564	AGI-TS-1	p.46
8500-6940	IV-STOCK-27	p.39
8500-6944	IV-STOCK-26	p.39
8500-6948	IV-STOCK-28	p.39
6610030000	IV-STOCK-24	p.39
6610030400	<b>VAR-IS-1</b>	p.49
6610030500	<b>VAR-CAL-1</b>	p.48
6610030600	<b>VAR-CAL-2</b>	p.48
6610030700	<b>IV-STOCK-33</b>	p.40

HORIBA Jobin Yvon <b>JY</b>		
Jobin Yvon#	Inorganic Ventures#	Page
JYICP-MIX23	<b>IV-STOCK-4</b>	p.36
JYICP-MIXMAJ	<b>IV-STOCK-34</b>	p.40

Merck/MilliporeSigma <b>M</b>		
Merck#	Inorganic Ventures#	Page
109410	IV-STOCK-23	p.39
109411	IV-STOCK-24	p.39
109480	IV-STOCK-13	p.37
109481	<b>IV-STOCK-14</b>	p.38
109492	IV-STOCK-8	p.37
109493	IV-STOCK-10	p.37
109494	<b>IV-STOCK-9</b>	p.37
109495	IV-STOCK-17	p.38
109498	<b>IV-STOCK-21</b>	p.38
109500	IV-STOCK-18	p.38
110322	IV-STOCK-7	p.37
110714	<b>IV-STOCK-5</b>	p.36

NIST Multi-Element Standards <b>N</b>		
NIST#	Inorganic Ventures#	Page
SRM1643f	IV-STOCK-1643	p.46

## Cross-Reference Table Symbols

<b>AV</b> Agilent/Varian	<b>PE</b> Perkin Elmer	<b>C</b> Common Multi-Element Standards
<b>JY</b> HORIBA Jobin Yvon	<b>S</b> Spectro	<b>I</b> Common Multi-Ion Standards
<b>M</b> Merck/MilliporeSigma	<b>T</b> Thermo Scientific	<b>U</b> USP Method <232>
<b>N</b> NIST		



## MULTI-ELEMENT STANDARDS

## Instrument Cross-Reference Table

Perkin Elmer <b>PE</b>		
Perkin Elmer#	Inorganic Ventures#	Page
N0681470	<b>IV-STOCK-14</b>	p.38
N8125032	<b>IV-STOCK-22</b>	p.38
N8145051	IV-STOCK-77	p.42
N9300208	IV-STOCK-54	p.41
N9300218	<b>IV-STOCK-34</b>	p.40
N9300231	<b>IV-STOCK-30</b>	p.40
N9300232	IV-STOCK-26	p.39
N9300234	IV-STOCK-28	p.39
N9300235	IV-STOCK-29	p.40
N9301720	IV-STOCK-21	p.38
N9302946	IV-STOCK-55	p.41
N9303818	<b>IV-STOCK-35</b>	p.40
N9303821	<b>PE-CHK-1</b>	p.46
N9303832	IV-STOCK-53	p.41
N9303843	<b>PE-TS-1</b>	p.47

Spectro <b>S</b>		
Spectro#	Inorganic Ventures#	Page
USA00875	CIROS-OES-TS	p.46
USA00888	GENESIS-ICAL	p.46

Thermo Scientific <b>T</b>		
Thermo Scientific#	Inorganic Ventures#	Page
1323760	THERMO-5A	p.47
1323770	THERMO-4AREV	p.47
ZG22950	TUNE F-X-SERIES	p.48


Common Multi-Element Standards <b>C</b>	
Inorganic Ventures#	Page
CMS-SET	p.43
CCS-SET	p.44
IV-ICPMS-SET	p.45
IV-STOCK-2	p.36
IV-STOCK-3	p.36
IV-STOCK-31	p.40
IV-STOCK-36	p.40
IV-STOCK-56	p.42
IV-STOCK-57	p.42
IV-STOCK-58	p.42
THM-TS-1	p.47


USP Method <232> <b>U</b>	
Inorganic Ventures#	Page
IV-STOCK-38	p.35
IV-STOCK-40	p.35
IV-STOCK-41	p.35
IV-STOCK-60	p.35
IV-STOCK-65	p.34
IV-STOCK-66	p.34
IV-STOCK-67	p.34
IV-STOCK-68	p.34
IV-STOCK-69	p.34
IV-STOCK-70	p.34


## IONS


Common Multi-Ion Standards <b>I</b>	
Inorganic Ventures#	Page
IC-FAS-1A	p.77
IC-SCS1	p.77
IV-STOCK-7	p.37, 77
IV-STOCK-59	p.77


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> / ICH Q3D Class 1 Oral Elemental Impurities			
<b>IV-STOCK-65</b> 		Matrix: HNO <sub>3</sub>	
<b>IV-STOCK-65-125ML</b> <b>IV-STOCK-65-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	15	Hg	30
Cd	5	Pb	5


USP <232> / ICH Q3D Class 2A Oral Elemental Impurities			
<b>IV-STOCK-66</b> 		Matrix: HNO <sub>3</sub>	
<b>IV-STOCK-66-125ML</b> <b>IV-STOCK-66-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Co	50	V	100
Ni	200		

USP <232> / ICH Q3D Oral Elemental Impurities			
<b>IV-STOCK-70</b> 		Matrix: HCl	
<b>IV-STOCK-70-125ML</b> <b>IV-STOCK-70-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	15	Ni	20
As	1.5	Os	10
Au	10	Pb	0.5
Ba	140	Pd	10
Cd	0.5	Pt	10
Co	5	Rh	10
Cr	1100	Ru	10
Cu	300	Sb	120
Hg	3	Se	15
Ir	10	Sn	600
Li	55	Tl	0.8
Mo	300	V	10

USP <232> / ICH Q3D Class 2B Oral Elemental Impurities			
<b>IV-STOCK-67</b> 		Matrix: HCl	
<b>IV-STOCK-67-125ML</b> <b>IV-STOCK-67-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Au	100	Rh	100
Ir	100	Ru	100
Os	100	Se	150
Pd	100	Tl	8
Pt	100		

USP <232> / ICH Q3D Class 2B Oral Elemental Impurities			
<b>IV-STOCK-68</b> 		Matrix: HNO <sub>3</sub>	
<b>IV-STOCK-68-125ML</b> <b>IV-STOCK-68-500ML</b>		Volume: 125 mL Volume: 500 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			
<b>IV-STOCK-69</b> 		Matrix: HNO <sub>3</sub> /tr HF	
<b>IV-STOCK-69-125ML</b> <b>IV-STOCK-69-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ba	140	Mo	300
Cr	1100	Sb	120
Cu	300	Sn	600
Li	55		

 USP Method <232>

## MULTI-ELEMENT STANDARDS

## USP Method &lt;232&gt; — Elemental Impurities Compliance Standards

USP <232> Precious Metals Elemental Impurities			
IV-STOCK-38 <b>U</b>		Matrix: HCl	
IV-STOCK-38-125ML		Volume: 125 mL	
IV-STOCK-38-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ir	100	Pt	100
Os	100	Rh	100
Pd	100	Ru	100

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

USP <232> Parenteral Elemental Impurities			
IV-STOCK-41 <b>U</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-41-125ML		Volume: 125 mL	
IV-STOCK-41-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	1.5	Mo	10
Cd	2.5	Ni	50
Cu	100	Pb	5
Hg	1.5	V	10

USP <232> Drug Substance and Excipients			
IV-STOCK-60 <b>U</b>		Matrix: HCl	
IV-STOCK-60-125ML		Volume: 125 mL	
IV-STOCK-60-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	1.5	Os	10
Cd	0.5	Pb	0.5
Cr	1100	Pd	10
Cu	300	Pt	10
Hg	3	Rh	10
Ir	10	Ru	10
Mo	300	V	10
Ni	20		



## 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 find out the best USP method for your custom manufacturing needs. Just one way we flex to your specs.

ICP Calibration Standard			
IV-STOCK-2 <b>C</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-2-125ML		Volume: 125 mL	
IV-STOCK-2-500ML		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 <b>C</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-3-125ML		Volume: 125 mL	
IV-STOCK-3-500ML		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 <b>JY</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-4-125ML		Volume: 125 mL	
IV-STOCK-4-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	1,000	In	1,000
Al	1,000	K	1,000
B	1,000	Li	1,000
Ba	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	Tl	1,000
Fe	1,000	Zn	1,000
Ga	1,000		

Wavelength Calibration Standard			
IV-STOCK-5 <b>M</b>		Matrix: HCl / HF	
IV-STOCK-5-125ML		Volume: 125 mL	
IV-STOCK-5-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	20	Mg	1
As	20	Mn	1
B	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	Te	20
Hg	5	Ti	2
K	100	Y	1
Li	2	Zn	2

ICP Calibration Standard			
IV-STOCK-6		Matrix: HNO <sub>3</sub>	
IV-STOCK-6-125ML		Volume: 125 mL	
IV-STOCK-6-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Li	10
Al	10	Mg	10
As	100	Mn	10
B	100	Mo	10
Ba	10	Na	10
Be	100	Ni	10
Bi	10	Pb	10
Ca	1,000	Rb	10
Cd	10	Se	100
Co	10	Sr	10
Cr	10	Te	10
Cu	10	Tl	10
Fe	100	U	10
Ga	10	V	10
K	10	Zn	100

**C** Common Multi-Element Standards

**JY** HORIBA Jobin Yvon

**M** Merck/MilliporeSigma

## MULTI-ELEMENT STANDARDS

Identical or near identical formulations | Multi-Element Standards

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

ICP Calibration Standard			
IV-STOCK-8 <b>M</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-8-125ML		Volume: 125 mL	
IV-STOCK-8-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	100	K	100
B	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	Tl	100
Ga	100	Zn	100

ICP Calibration Standard – Toxic Elements			
IV-STOCK-9 <b>M</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-9-125ML		Volume: 125 mL	
IV-STOCK-9-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	100	Pb	100
Be	100	Se	100
Cd	100	Tl	100
Ni	100		

**I** Common Multi-Ion Standards**M** Merck/MilliporeSigma

ICP Calibration Standard – Surface Water			
IV-STOCK-10 <b>M</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-10-125ML		Volume: 125 mL	
IV-STOCK-10-500ML		Volume: 500 mL	
Analyte	µg/L*	Analyte	µg/L*
As	50	Mg	15,000
B	100	Mn	30
Ba	50	Mo	100
Be	20	Na	8,000
Bi	10	Ni	50
Ca	35,000	Pb	25
Cd	20	Se	10
Co	25	Sr	100
Cr	20	Tl	10
Cu	20	V	50
Fe	100	Zn	50
K	3,000		

\*Parts per billion

ICP-MS Calibration Standard			
IV-STOCK-12		Matrix: HNO <sub>3</sub>	
IV-STOCK-12-125ML		Volume: 125 mL	
IV-STOCK-12-500ML		Volume: 500 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-13 <b>M</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-13-125ML		Volume: 125 mL	
IV-STOCK-13-500ML		Volume: 500 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

Wavelength Calibration Standard			
IV-STOCK-14 <b>M</b> <b>PE</b>		Matrix: HCl / HNO <sub>3</sub> / HF	
IV-STOCK-14-125ML		Volume: 125 mL	
IV-STOCK-14-500ML		Volume: 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
Mo	20		

ICP-MS Calibration Standard			
IV-STOCK-15		Matrix: HNO <sub>3</sub>	
IV-STOCK-15-125ML		Volume: 125 mL	
IV-STOCK-15-500ML		Volume: 500 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 <sub>3</sub>	
IV-STOCK-16-125ML		Volume: 125 mL	
IV-STOCK-16-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ba	1,000	Mg	1,000
Ca	1,000	Sr	1,000

ICP Calibration Standard – HCl Soluble Elements			
IV-STOCK-17 <b>M</b>		Matrix: HCl/HNO <sub>3</sub> /HF	
IV-STOCK-17-125ML		Volume: 125 mL	
IV-STOCK-17-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Hf	100	Ta	100
Ir	100	Ti	100
Sb	100	Zr	100
Sn	100		

**M** Merck/MilliporeSigma

**PE** Perkin Elmer

GFAA Calibration Standard			
IV-STOCK-18 <b>M</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-18-125ML		Volume: 125 mL	
IV-STOCK-18-500ML		Volume: 500 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	Tl	100

ICP Calibration Standard			
IV-STOCK-21 <b>M</b> <b>PE</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-21-125ML		Volume: 125 mL	
IV-STOCK-21-500ML		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
Be	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	Tl	10
Cu	10	U	10
Fe	10	V	10
Ga	10	Zn	10
In	10		


ICP Calibration Standard			
IV-STOCK-22 <b>PE</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-22-125ML		Volume: 125 mL	
IV-STOCK-22-500ML		Volume: 500 mL	
Analyte	µg/L*	Analyte	µg/L*
Cd	200	Pb	200
Cu	200	Rh	200
Mg	200		

\*Parts per billion







## MULTI-ELEMENT STANDARDS


Identical or near identical formulations | Multi-Element Standards



ICP Calibration Standard			
IV-STOCK-23 		Matrix: HNO <sub>3</sub>	
IV-STOCK-23-125ML		Volume: 125 mL	
IV-STOCK-23-500ML		Volume: 500 mL	
Analyte	µg/L*	Analyte	µg/L*
B	1	Lu	1
Ba	1	Na	1
Co	1	Rh	1
Fe	1	Sc	1
Ga	1	Tl	1
In	1	U	1
K	1	Y	1
Li	1		




\*Parts per billion

Tuning Solution			
IV-STOCK-24  		Matrix: HNO <sub>3</sub>	
IV-STOCK-24-125ML		Volume: 125 mL	
IV-STOCK-24-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	50	Mn	50
As	50	Mo	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  		Matrix: HNO <sub>3</sub>	
IV-STOCK-26-125ML		Volume: 125 mL	
IV-STOCK-26-500ML		Volume: 500 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
Ho	10	Tm	10
La	10	Y	10
Lu	10	Yb	10
Nd	10		

ICP Calibration Standard			
IV-STOCK-27 		Matrix: HNO <sub>3</sub>	
IV-STOCK-27-125ML		Volume: 125 mL	
IV-STOCK-27-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Li	10
Al	10	Mg	10
As	10	Mn	10
Ba	10	Na	10
Be	10	Ni	10
Ca	10	Pb	10
Cd	10	Rb	10
Co	10	Se	10
Cr	10	Sr	10
Cs	10	Tl	10
Cu	10	U	10
Fe	10	V	10
Ga	10	Zn	10
K	10		

ICP Calibration Standard			
IV-STOCK-28  		Matrix: HCl / HNO <sub>3</sub>	
IV-STOCK-28-125ML		Volume: 125 mL	
IV-STOCK-28-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Au	10	Rh	10
Hf	10	Ru	10
Ir	10	Sb	10
Pd	10	Sn	10
Pt	10	Te	10

-  Agilent/Varian  
 Merck/MilliporeSigma  
 Perkin Elmer

ICP Calibration Standard			
IV-STOCK-29 <b>PE</b>		Matrix: HNO <sub>3</sub> /HF	
IV-STOCK-29-125ML		Volume: 125 mL	
IV-STOCK-29-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
B	10	S	10
Ge	10	Si	10
Mo	10	Ta	10
Nb	10	Ti	10
P	10	W	10
Re	10	Zr	10

ICP Calibration Standard			
IV-STOCK-30 <b>PE</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-30-125ML		Volume: 125 mL	
IV-STOCK-30-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Be	10	Mg	10
Bi	10	Ni	10
Ce	10	Pb	10
Co	10	U	10
In	10		

ICP Calibration Standard			
IV-STOCK-31 <b>C</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-31-125ML		Volume: 125 mL	
IV-STOCK-31-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	1	Mg	0.2
Ba	0.2	Mn	1
Ca	0.2	Ni	5
Cu	1	P	10
K	5	Zn	0.2

Calibration Standard – Mix Majors			
IV-STOCK-33 <b>AV</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-33-125ML		Volume: 125 mL	
IV-STOCK-33-500ML		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 <b>PE JY</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-34-125ML		Volume: 125 mL	
IV-STOCK-34-500ML		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 <b>PE</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-35-125ML		Volume: 125 mL	
IV-STOCK-35-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ca	1,000	Mg	1,000
Fe	1,000	Na	1,000
K	1,000		

ICP Calibration Standard			
IV-STOCK-36 <b>C</b>		Matrix: HCl	
IV-STOCK-36-125ML		Volume: 125 mL	
IV-STOCK-36-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Au	100	Pt	100
Pd	100		

**AV** Agilent/Varian


**C** Common Multi-Element Standards


**JY** HORIBA Jobin Yvon



**PE** Perkin Elmer

## MULTI-ELEMENT STANDARDS



Identical or near identical formulations | Multi-Element Standards


Environmental Calibration Standard			
IV-STOCK-50 		Matrix: HNO <sub>3</sub> / HF	
IV-STOCK-50-125ML		Volume: 125 mL	
IV-STOCK-50-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Mn	10
Al	10	Mo	10
As	10	Na	1000
Ba	10	Ni	10
Be	10	Pb	10
Ca	1000	Sb	10
Cd	10	Se	10
Co	10	Th	10
Cr	10	Tl	10
Cu	10	U	10
Fe	1000	V	10
K	1000	Zn	10
Mg	1000		


7500 Series PA Tuning Solution 1 (commonly used with IV-Stock-52)			
IV-STOCK-51 		Matrix: HNO <sub>3</sub>	
IV-STOCK-51-125ML		Volume: 125 mL	
IV-STOCK-51-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	5	Mn	5
As	20	Na	5
Ba	5	Ni	10
Be	20	Pb	10
Bi	5	Sc	5
Cd	20	Sr	5
Co	5	Th	5
Cr	5	Tl	5
Cu	5	U	5
In	5	V	5
<sup>6</sup> Li	5	Y	2.5
Lu	5	Yb	2.5
Mg	10	Zn	20

 Agilent/Varian Perkin Elmer

7500 Series PA Tuning Solution 2 (commonly used with IV-Stock-51)			
IV-STOCK-52		Matrix: HCl	
IV-STOCK-52-125ML		Volume: 125 mL	
IV-STOCK-52-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ge	10	Ru	10
Ir	5	Sb	10
Mo	10	Sn	10
Pd	10	Ti	5

Internal Standard			
IV-STOCK-53  		Matrix: HNO <sub>3</sub> / HF	
IV-STOCK-53-125ML		Volume: 125 mL	
IV-STOCK-53-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	10	Sc	10
Ge	10	Tb	10
In	10	Y	10
<sup>6</sup> Li	10		

Interference Check Standard			
IV-STOCK-54 		Matrix: HNO <sub>3</sub>	
IV-STOCK-54-125ML		Volume: 125 mL	
IV-STOCK-54-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	1200	Mg	3000
Ca	6000	Na	1000
Fe	5000		

Wavecal Standard			
IV-STOCK-55 		Matrix: HNO <sub>3</sub>	
IV-STOCK-55-125ML		Volume: 125 mL	
IV-STOCK-55-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ba	1	Li	10
Ca	1	Mn	10
K	50	Na	10
La	10	Sr	10

ICP Calibration Standard			
IV-STOCK-56 <b>C</b>		Matrix: HNO <sub>3</sub> / HF	
IV-STOCK-56-125ML		Volume: 125 mL	
IV-STOCK-56-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Mo	100	Sn	100
Sb	100	Ti	100
Si	100		

ICP Calibration Standard			
IV-STOCK-57 <b>C</b>		Matrix: HNO <sub>3</sub> / HF	
IV-STOCK-57-125ML		Volume: 125 mL	
IV-STOCK-57-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Mo	10	Sn	10
Sb	10	Ti	10

ICP Calibration Standard			
IV-STOCK-58 <b>C</b>		Matrix: HCl	
IV-STOCK-58-125ML		Volume: 125 mL	
IV-STOCK-58-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Au	100	Pt	100
Ir	100	Re	100
Os	100	Rh	100
Pd	100	Ru	100

ICP-MS Tuning Solution			
IV-STOCK-71 <b>N</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-71-125ML		Volume: 125 mL	
IV-STOCK-71-500ML		Volume: 500 mL	
Analyte	µg/L*	Analyte	µg/L*
Be	10	Co	5
Bi	2	In	2
Ce	2	Mn	5

\*Parts per billion

ICP-MS Tuning Solution			
IV-STOCK-74 <b>AV</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-74-125ML		Volume: 125 mL	
IV-STOCK-74-500ML		Volume: 500 mL	
Analyte	µg/L*	Analyte	µg/L*
Ce	1	Mg	1
Co	1	Tl	1
Li	1	Y	1

\*Parts per billion

ICP-MS Internal Standard			
IV-STOCK-75 <b>AV</b>		Matrix: HNO <sub>3</sub> / HF	
IV-STOCK-75-125ML		Volume: 125 mL	
IV-STOCK-75-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	100	Lu	100
Ge	100	Rh	100
In	100	Sc	100
<sup>6</sup> Li	100	Tb	100

ICP-MS Tuning Solution			
IV-STOCK-77 <b>PE</b>		Matrix: HNO <sub>3</sub>	
IV-STOCK-77-125ML		Volume: 125 mL	
IV-STOCK-77-500ML		Volume: 500 mL	
Analyte	µg/L*	Analyte	µg/L*
Be	1	Li	1
Ce	1	Mg	1
Fe	1	Pb	1
In	1	U	1

\*Parts per billion

**AV** Agilent/Varian**C** Common Multi-Element Standards**PE** Perkin Elmer

## MULTI-ELEMENT STANDARDS

Identical or near identical formulations | Multi-Element Standards

These elements are grouped for ease of use. Intended for ICP-MS and ICP-OES, they can be used individually or combined in any combination upon dilution into 1% HNO<sub>3</sub>. Custom ICP-MS/OES calibration standards are available upon request.

## 65-Element Group

Rare Earth ICP-MS Standard			
<b>CMS-1</b> <span style="background-color: #FFD700; border-radius: 50%; padding: 2px;">C</span>		Matrix: HNO <sub>3</sub>	
<b>CMS-1-125ML</b> <b>CMS-1-500ML</b>		Volume: 125 mL Volume: 500 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
Ho	10	Tm	10
La	10	U	10
Lu	10	Y	10
Nd	10	Yb	10

Precious Metals ICP-MS Standard			
<b>CMS-2</b> <span style="background-color: #FFD700; border-radius: 50%; padding: 2px;">C</span>		Matrix: HCl	
<b>CMS-2-125ML</b> <b>CMS-2-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Au	10	Re	10
Ir	10	Rh	10
Pd	10	Ru	10
Pt	10	Te	10

Fluoride Soluble ICP-MS Standard			
<b>CMS-3</b> <span style="background-color: #FFD700; border-radius: 50%; padding: 2px;">C</span>		Matrix: HNO <sub>3</sub> /HF	
<b>CMS-3-125ML</b> <b>CMS-3-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ge	10	Ta	10
Hf	10	Ti	10
Mo	10	W	10
Nb	10	Zr	10
Sn	10		

Hot Plasma ICP-MS Complete Standard			
<b>CMS-4</b> <span style="background-color: #FFD700; border-radius: 50%; padding: 2px;">C</span>		Matrix: HNO <sub>3</sub>	
<b>CMS-4-125ML</b> <b>CMS-4-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	10	In	10
B	10	Pb	10
Ba	10	Sb	10
Be	10	Se	10
Bi	10	Tl	10
Cd	10	V	10
Ga	10		

Cool Plasma ICP-MS Complete Standard			
<b>CMS-5</b> <span style="background-color: #FFD700; border-radius: 50%; padding: 2px;">C</span>		Matrix: HNO <sub>3</sub>	
<b>CMS-5-125ML</b> <b>CMS-5-500ML</b>		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		

C Common Multi-Element Standard

These elements are grouped for ease of use. Intended for ICP-MS and ICP-OES, they can be used individually or combined in any combination upon dilution into 1% HNO<sub>3</sub>. Custom ICP-MS/OES calibration standards are available upon request.

### 69-Element Group

Rare Earth ICP-MS Standard			
<b>CCS-1</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		Matrix: HNO <sub>3</sub>	
<b>CCS-1-125ML</b> <b>CCS-1-500ML</b>		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
Ho	100	Tm	100
La	100	U	100
Lu	100	Y	100
Nd	100	Yb	100

Precious Metals ICP-MS Standard			
<b>CCS-2</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		Matrix: HCl	
<b>CCS-2-125ML</b> <b>CCS-2-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Au	100	Pt	100
Ir	100	Rh	100
Pd	100	Ru	100

Alkali, Alkaline, Non-Transition ICP-MS Standard			
<b>CCS-4</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		Matrix: HNO <sub>3</sub>	
<b>CCS-4-125ML</b> <b>CCS-4-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	100	In	100
As	100	K	100
Ba	100	Li	100
Be	100	Mg	100
Bi	100	Na	100
Ca	100	Rb	100
Cs	100	Se	100
Ga	100	Sr	100

Fluoride Soluble ICP-MS Standard			
<b>CCS-5</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		Matrix: HNO <sub>3</sub> /HF	
<b>CCS-5-125ML</b> <b>CCS-5-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
B	100	Sb	100
Ge	100	Si	100
Hf	100	Sn	100
Mo	100	Ta	100
Nb	100	Ti	100
P	100	W	100
Re	100	Zr	100
S	100		

Transition ICP-MS Standard			
<b>CCS-6</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		Matrix: HNO <sub>3</sub>	
<b>CCS-6-125ML</b> <b>CCS-6-500ML</b>		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	Tl	100
Cu	100	V	100
Fe	100	Zn	100
Hg	100		

Tellurium ICP-MS Standard	
<b>MSTEN-100PPM</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>	Matrix: HNO <sub>3</sub>
<b>MSTEN-100PPM-125ML</b> <b>MSTEN-100PPM-500ML</b>	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Te	100

C Common Multi-Element Standard



## MULTI-ELEMENT STANDARDS

Identical or near identical formulations | Multi-Element Standards

These elements are grouped for ease of use. Intended for ICP-MS and ICP-OES, they can be used individually or combined in any combination upon dilution into 1% HNO<sub>3</sub>. Custom ICP-MS/OESw calibration standards are available upon request.

## 71-Element Group

ICP-MS Complete Standard			
IV-ICPMS-71A <b>C</b>		Matrix: HNO <sub>3</sub>	
IV-ICPMS-71A-125ML		Volume: 125 mL	
IV-ICPMS-71A-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Lu	10
Al	10	Mg	10
As	10	Mn	10
B	10	Na	10
Ba	10	Nd	10
Be	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	Tl	10
Fe	10	Tm	10
Ga	10	U	10
Gd	10	V	10
Ho	10	Yb	10
K	10	Zn	10
La	10		

Lithium ICP-MS Standard	
MSLI-10PPM <b>C</b>	Matrix: HNO <sub>3</sub>
MSLI-10PPM-125ML	Volume: 125 mL
MSLI-10PPM-500ML	Volume: 500 mL
Analyte	µg/mL
Li	10

ICP-MS Refractory Elements Standard			
IV-ICPMS-71B <b>C</b>		Matrix: HNO <sub>3</sub> / HF	
IV-ICPMS-71B-125ML		Volume: 125 mL	
IV-ICPMS-71B-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ge	10	Sn	10
Hf	10	Ta	10
Mo	10	Te	10
Nb	10	Ti	10
Sb	10	W	10
Si	10	Zr	10

ICP-MS Precious Metals Standard			
IV-ICPMS-71C <b>C</b>		Matrix: HCl	
IV-ICPMS-71C-125ML		Volume: 125 mL	
IV-ICPMS-71C-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Au	10	Pt	10
Ir	10	Re	10
Os	10	Rh	10
Pd	10	Ru	10

ICP-MS Internal Standard			
IV-ICPMS-71D <b>C</b>		Matrix: HNO <sub>3</sub>	
IV-ICPMS-71D-125ML		Volume: 125 mL	
IV-ICPMS-71D-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	10	Sc	10
In	10	Tb	10
<sup>6</sup> Li	10	Y	10

Mercury ICP-MS Standard	
MSHG-10PPM <b>C</b>	Matrix: HCl
MSHG-10PPM-125ML	Volume: 125 mL
MSHG-10PPM-500ML	Volume: 500 mL
Analyte	µg/mL
Hg	10

**C** Common Multi-Element Standard

AGI Tuning Solution			
<b>AGI-TS-1</b> <b>AV</b>		Matrix: HNO <sub>3</sub>	
<b>AGI-TS-1-125ML</b>		Volume: 125 mL	
<b>AGI-TS-1-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ce	10	Tl	10
Co	10	Y	10
Li	10		

CIROS Tuning Solution			
<b>CIROS-OES-TS</b> <b>S</b>		Matrix: HCl / HNO <sub>3</sub>	
<b>CIROS-OES-TS-125ML</b>		Volume: 125 mL	
<b>CIROS-OES-TS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Fe	10	P	10
K	10	S	50
La	10	Sc	10
Mg	5	Ti	10
Mn	5		

GENESIS Calibration Standard			
<b>GENESIS-ICAL</b> <b>S</b>		Matrix: HNO <sub>3</sub> / HCl / HF	
<b>GENESIS-ICAL-125ML</b>		Volume: 125 mL	
<b>GENESIS-ICAL-500ML</b>		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	Y	10
Mo	5	Zr	10

Trace Metals in Water– SRM1643			
<b>IV-STOCK-1643</b> <b>N</b>		Matrix: HNO <sub>3</sub>	
<b>IV-STOCK-1643-125ML</b>		Volume: 125 mL	
<b>IV-STOCK-1643-500ML</b>		Volume: 500 mL	
Analyte	µg/L*	Analyte	µg/L*
Ag	1	Mg	8,000
Al	142	Mn	39
As	60	Mo	121
B	158	Na	21,000
Ba	544	Ni	62
Be	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	Te	1
Fe	98	Tl	7
K	2,000	V	38
Li	17	Zn	79

\*Parts per billion

Instrument Check Standard			
<b>PE-CHK-1</b> <b>PE</b>		Matrix: HNO <sub>3</sub> / HF	
<b>PE-CHK-1-125ML</b>		Volume: 125 mL	
<b>PE-CHK-1-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Mn	10
Al	10	Ni	10
As	10	Pb	10
Ba	10	Sb	10
Be	10	Se	10
Cd	10	Tl	10
Co	10	V	10
Cr	10	Zn	10
Cu	10		

**AV** Agilent/Varian**N** NIST**PE** Perkin Elmer**S** Spectro

Tuning Solution			
<b>PE-TS-1</b> <b>PE</b>		Matrix: HNO <sub>3</sub>	
<b>PE-TS-1-125ML</b> <b>PE-TS-1-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ba</b>	10	<b>Mg</b>	10
<b>Be</b>	10	<b>Pb</b>	10
<b>Ce</b>	10	<b>Rh</b>	10
<b>Co</b>	10	<b>Tl</b>	10
<b>In</b>	10	<b>U</b>	10
<b>Li</b>	10	<b>Y</b>	10

ICP-MS Tuning Solution – Tune B iCAP			
<b>THERMO-4AREV</b> <b>T</b>		Matrix: HNO <sub>3</sub> /HCl	
<b>THERMO-4AREV-500ML</b> <b>THERMO-4AREV-1L</b>		Volume: 500 mL Volume: 1 L	
Analyte	µg/L*	Analyte	µg/L*
<b>Ba</b>	1	<b>In</b>	1
<b>Bi</b>	1	<b>Li</b>	1
<b>Ce</b>	1	<b>U</b>	1
<b>Co</b>	1		


\*Parts per billion

ICP-MS Tuning Solution – iCAP Q			
<b>THERMO-5A</b> <b>T</b>		Matrix: HNO <sub>3</sub>	
<b>THERMO-5A-125ML</b> <b>THERMO-5A-250ML</b>		Volume: 125 mL Volume: 250 mL	
Analyte	µg/L*	Analyte	µg/L*
<b>Ag</b>	6	<b>Mg</b>	10
<b>Al</b>	10	<b>Mn</b>	6
<b>Ba</b>	4	<b>Ni</b>	15
<b>Be</b>	35	<b>Rh</b>	3
<b>Bi</b>	3	<b>Sc</b>	8
<b>Ce</b>	3	<b>Sr</b>	5
<b>Co</b>	8	<b>Ta</b>	3
<b>Cs</b>	3	<b>Tb</b>	3
<b>Cu</b>	15	<b>Tl</b>	4
<b>Ga</b>	10	<b>U</b>	3
<b>Ho</b>	3	<b>Y</b>	3
<b>In</b>	3	<b>Zn</b>	20
<b>Li</b>	8		


\*Parts per billion


Tuning Solution			
<b>THM-TS-1</b> <b>C</b>		Matrix: HNO <sub>3</sub>	
<b>THM-TS-1-125ML</b> <b>THM-TS-1-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>B</b>	10	<b>Lu</b>	10
<b>Ba</b>	10	<b>Na</b>	10
<b>Co</b>	10	<b>Rh</b>	10
<b>Fe</b>	10	<b>Sc</b>	10
<b>Ga</b>	10	<b>Th</b>	10
<b>In</b>	10	<b>U</b>	10
<b>K</b>	10	<b>Y</b>	10
<b>Li</b>	10		


- C** Common Multi-Element Standard  
**PE** Perkin Elmer  
**T** Thermo Scientific

Tune F-X-Series Tuning Solution			
TUNE F-X-SERIES 		Matrix: HNO <sub>3</sub> /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
B	200	Ni	150
Ba	50	P	1000
Be	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	Te	500
Ge	150	Th	5
Hf	15	Ti	500
Ho	5	Tl	10
In	10	Tm	5
K	35	U	5
La	10	V	40
Li	100	W	25
Lu	5	Y	15
Mg	50	Yb	25
Mn	20	Zn	150
Mo	100	Zr	35

\*Parts per billion

Calibration Standard			
VAR-CAL-1 		Matrix: HNO <sub>3</sub> / HF	
VAR-CAL-1-125ML		Volume: 125 mL	
VAR-CAL-1-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Mo	100	Sn	100
Sb	100	Ti	100

Calibration Standard			
VAR-CAL-2 		Matrix: HNO <sub>3</sub>	
VAR-CAL-2-125ML		Volume: 125 mL	
VAR-CAL-2-500ML		Volume: 500 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	Tl	100
Co	100	U	100
Cr	100	V	100
Cu	100	Zn	100


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

 Agilent/Varian Thermo Scientific


## MULTI-ELEMENT STANDARDS

## Multi-Element Standards

Identical or **near identical** formulations

ICP Internal Standard			
<b>VAR-IS-1</b> 		Matrix: HNO <sub>3</sub>	
<b>VAR-IS-1-125ML</b> <b>VAR-IS-1-500ML</b>		Volume: 125 mL Volume: 500 mL	
<b>Analyte</b>	<b>µg/mL</b>	<b>Analyte</b>	<b>µg/mL</b>
<b>Bi</b>	100	<b>Sc</b>	100
<b>In</b>	100	<b>Tb</b>	100
<sup>6</sup> <b>Li</b>	100	<b>Y</b>	100

 Agilent/Varian

Tuning Solution			
<b>VAR-TS-MS</b> 		Matrix: HNO <sub>3</sub>	
<b>VAR-TS-MS-125ML</b> <b>VAR-TS-MS-500ML</b>		Volume: 125 mL Volume: 500 mL	
<b>Analyte</b>	<b>µg/mL</b>	<b>Analyte</b>	<b>µg/mL</b>
<b>Ba</b>	10	<b>Mg</b>	10
<b>Be</b>	10	<b>Pb</b>	10
<b>Ce</b>	10	<b>Th</b>	10
<b>Co</b>	10	<b>Tl</b>	10
<b>In</b>	10		

## HIGH-PURITY IONIZATION BUFFERS

## Ionization Buffers

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

1% Cesium Ionization Buffer	
<b>CSN-ISB</b>	Matrix: HNO <sub>3</sub>
<b>CSN-ISB-125ML</b> <b>CSN-ISB-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>Cs</b>	10,000
High Purity buffer; ideal for Axial View ICP-OES	

2% Lithium Ionization Buffer	
<b>LINB2</b>	Matrix: HNO <sub>3</sub>
<b>LINB2-125ML</b> <b>LINB2-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>Li</b>	20,000

5% Cesium Ionization Buffer	
<b>CSN-ISB5</b>	Matrix: HNO <sub>3</sub>
<b>CSN-ISB5-125ML</b> <b>CSN-ISB5-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>Cs</b>	50,000

# EPA STANDARDS



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.

**Industry Advancements —**  
Developing new technology that drives us forward is another way we Flex to Your Specs.

- ✓ Up to four-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

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ILMO3.0

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

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

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

Calibration Standard	
<b>CGSB1</b>	Matrix: HNO <sub>3</sub> /Tartaric Acid Dilution 1:100
<b>CGSB1-30ML</b> <b>CGSB1-125ML</b> <b>CGSB1-500ML</b>	Volume: 30 mL Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Sb	1,000

CICV Standards – Continuing and Initial Calibration Verification

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

<sup>†</sup>Manufactured from in-house Second Source concentrates, whenever possible.

CICV Standard <sup>†</sup>	
<b>QCP-CICV-2</b>	Matrix: HNO <sub>3</sub> /Tartaric Acid Dilution 1:100 or 1:500
<b>QCP-CICV-2-125ML</b> <b>QCP-CICV-2-500ML</b>	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Sb	500

<sup>†</sup>Manufactured from in-house Second Source concentrates, whenever possible.

CICV Standard <sup>†</sup>			
<b>QCP-CICV-3</b>		Matrix: HNO <sub>3</sub> Dilution 1:100 or 1:500	
<b>QCP-CICV-3-125ML</b> <b>QCP-CICV-3-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	500	Se	500
Cd	250	Tl	500
Pb	500		

<sup>†</sup>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 &amp; Water Spike Standards

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

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

\*Instructions included.

## Interference Check Standards

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

Interference Check Standard			
<b>CLPP-ICS-B</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>CLPP-ICS-B-125ML</b>		Volume: 125 mL	
<b>CLPP-ICS-B-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	100	<b>Cu</b>	50
<b>Ba</b>	50	<b>Mn</b>	50
<b>Be</b>	50	<b>Ni</b>	100
<b>Cd</b>	100	<b>Pb</b>	100
<b>Co</b>	50	<b>V</b>	50
<b>Cr</b>	50	<b>Zn</b>	100

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

### Calibration Standards

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

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

Calibration Standard	
<b>CGSB1</b>	Matrix: HNO <sub>3</sub> /Tartaric Acid Dilution 1:100
<b>CGSB1-30ML</b> <b>CGSB1-125ML</b> <b>CGSB1-500ML</b>	Volume: 30 mL Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Sb	1,000

### CICV Standards – Continuing and Initial Calibration Verification

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

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

CICV Standard†			
<b>QCP-CICV-3</b>		Matrix: HNO <sub>3</sub> Dilution 1:100 or 1:500	
<b>QCP-CICV-3-125ML</b> <b>QCP-CICV-3-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	500	Se	500
Cd	250	Tl	500
Pb	500		

†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 &amp; Water Spike Standards

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

\*Instructions included.



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			
<b>CLPP-ICS-A</b>		Matrix: HNO <sub>3</sub> Dilution 1:10	
<b>CLPP-ICS-A-125ML</b>		Volume: 125 mL	
<b>CLPP-ICS-A-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Al</b>	5,000	<b>Fe</b>	2,000
<b>Ca</b>	5,000	<b>Mg</b>	5,000

Interference Check Standard B4			
<b>CLPP-ICS-B4</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>CLPP-ICS-B4-125ML</b>		Volume: 125 mL	
<b>CLPP-ICS-B4-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	20	<b>Mn</b>	50
<b>As</b>	10	<b>Ni</b>	100
<b>Ba</b>	50	<b>Pb</b>	5
<b>Be</b>	50	<b>Sb</b>	60
<b>Cd</b>	100	<b>Se</b>	5
<b>Co</b>	50	<b>Tl</b>	10
<b>Cr</b>	50	<b>V</b>	50
<b>Cu</b>	50	<b>Zn</b>	100

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

### Calibration Standards

Calibration Standard	
<b>CGSB1</b>	Matrix: HNO <sub>3</sub> /Tartaric Acid Dilution 1:100
<b>CGSB1-30ML</b> <b>CGSB1-125ML</b> <b>CGSB1-500ML</b>	Volume: 30 mL Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>Sb</b>	1,000

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

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

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

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

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

### CICV Standards – Continuing and Initial Calibration Verification

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

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

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

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

CICV Standard†			
<b>QCP-CICV-3</b>		Matrix: HNO <sub>3</sub> Dilution 1:100 or 1:500	
<b>QCP-CICV-3-125ML</b> <b>QCP-CICV-3-500ML</b>		Volume: 125 mL Volume: 500 mL	
<b>Analyte</b>	<b>µg/mL</b>	<b>Analyte</b>	<b>µg/mL</b>
<b>As</b>	500	<b>Se</b>	500
<b>Cd</b>	250	<b>Tl</b>	500
<b>Pb</b>	500		

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

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

### Contract Required Detection Limit (CRDL) and Contract Required Quantitation Limit (CRQL) Standards

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

For use with ICP-OES. Designed for ILM05.3.

### Interference Check Standards

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

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

Interference Check Standard B4			
<b>CLPP-ICS-B4</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>CLPP-ICS-B4-125ML</b> <b>CLPP-ICS-B4-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	20	<b>Mn</b>	50
<b>As</b>	10	<b>Ni</b>	100
<b>Ba</b>	50	<b>Pb</b>	5
<b>Be</b>	50	<b>Sb</b>	60
<b>Cd</b>	100	<b>Se</b>	5
<b>Co</b>	50	<b>Tl</b>	10
<b>Cr</b>	50	<b>V</b>	50
<b>Cu</b>	50	<b>Zn</b>	100

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

### Soil & Water Spike Standards

Spike Standard			
<b>CLP-MS-SPK</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>CLP-MS-SPK-125ML</b>		Volume: 125 mL	
<b>CLP-MS-SPK-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	5	<b>Mn</b>	50
<b>Al</b>	200	<b>Ni</b>	50
<b>As</b>	4	<b>Pb</b>	2
<b>Ba</b>	200	<b>Sb</b>	10
<b>Be</b>	5	<b>Se</b>	1
<b>Cd</b>	5	<b>Tl</b>	5
<b>Co</b>	50	<b>V</b>	50
<b>Cr</b>	20	<b>Zn</b>	50
<b>Cu</b>	25		

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

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

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

### Internal Standards & Tuning Solutions

Internal Standard			
<b>6020ISS</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020ISS-125ML</b>		Volume: 125 mL	
<b>6020ISS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Bi</b>	10	<b>Rh</b>	10
<b>Ho</b>	10	<b>Sc</b>	10
<b>In</b>	10	<b>Tb</b>	10
<sup>6</sup> <b>Li</b>	10	<b>Y</b>	10

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

Tuning Solution			
<b>6020TS</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020TS-125ML</b>		Volume: 125 mL	
<b>6020TS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Co</b>	10	<b>Li</b>	10
<b>In</b>	10	<b>Tl</b>	10

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

Tuning Solution			
<b>2008TS</b>		Matrix: HNO <sub>3</sub> Dilution 1:100 to 1:1,000	
<b>2008TS-125ML</b>		Volume: 125 mL	
<b>2008TS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Be</b>	10	<b>Mg</b>	10
<b>Co</b>	10	<b>Pb</b>	10
<b>In</b>	10		

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

**Blank & Rinse Solutions**

Blank & Rinse solutions are prepared using double-distilled reagents and 18 megohm ( $M\Omega$ ) 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	
<b>CLP-MS-RINSE</b>	Matrix: $\text{HNO}_3$
<b>CLP-MS-RINSE-125ML</b> <b>CLP-MS-RINSE-500ML</b>	Volume: 125 mL Volume: 500 mL

For use with ICP-MS. Designed for ILMO5.2 and ILMO5.3.

See page 100 for more options.

**200.7 Calibration**

Standards for Method 200.7 are designed for use with ICP-OES. 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		
<b>CLPP-SPK-2</b>	Matrix: $\text{HNO}_3$ /Tartaric Acid Dilution 1:100	
<b>CLPP-SPK-2-125ML</b> <b>CLPP-SPK-2-500ML</b>	Volume: 125 mL Volume: 500 mL	
Analyte	$\mu\text{g/mL}$	$\lambda(\text{nm})$
<b>Sb</b>	500	206.833

Calibration Standard		
<b>WW-CAL-1A</b>	Matrix: $\text{HNO}_3$ Dilution 1:100	
<b>WW-CAL-1A-125ML</b> <b>WW-CAL-1A-500ML</b>	Volume: 125 mL Volume: 500 mL	
Analyte	$\mu\text{g/mL}$	$\lambda(\text{nm})$
<b>Ag</b>	50	328.068
<b>As</b>	1,000	193.759
<b>B</b>	100	249.678
<b>Ba</b>	100	493.409
<b>Ca</b>	1,000	315.887
<b>Cd</b>	200	226.502
<b>Cu</b>	200	324.754
<b>Mn</b>	200	257.610
<b>Se</b>	500	196.090
<b>Sr*</b>	100	421.552

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

Calibration Standard		
<b>WW-CAL-2</b>	Matrix: $\text{HNO}_3$ / HF Dilution 1:100	
<b>WW-CAL-2-125ML</b> <b>WW-CAL-2-500ML</b>	Volume: 125 mL Volume: 500 mL	
Analyte	$\mu\text{g/mL}$	$\lambda(\text{nm})$
<b>K</b>	2,000	766.491
<b>Li</b>	500	670.784
<b>Mo</b>	1,000	203.844
<b>Na</b>	1,000	588.995
<b>Ti</b>	1,000	334.941

Calibration Standard		
<b>WW-CAL-3</b>	Matrix: $\text{HNO}_3$ Dilution 1:100	
<b>WW-CAL-3-125ML</b> <b>WW-CAL-3-500ML</b>	Volume: 125 mL Volume: 500 mL	
Analyte	$\mu\text{g/mL}$	$\lambda(\text{nm})$
<b>Ce</b>	200	413.765
<b>Co</b>	200	228.616
<b>P</b>	1,000	214.914
<b>V</b>	200	292.402



200.7 Calibration

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

Calibration Standard		
<b>WW-CAL-4B</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100
<b>WW-CAL-4B-125ML</b> <b>WW-CAL-4B-500ML</b>		Volume: 125 mL Volume: 500 mL
Analyte	µg/mL	λ(nm)
SiO <sub>2</sub>	1,000	251.611
Sn	400	189.980

Calibration Standard		
<b>WW-CAL-5</b>		Matrix: HNO <sub>3</sub> Dilution 1:100
<b>WW-CAL-5-125ML</b> <b>WW-CAL-5-500ML</b>		Volume: 125 mL Volume: 500 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
Tl	500	190.864

200.7 Interference Checks

Interference Check Standard	
<b>CGSB1</b>	Matrix: HNO <sub>3</sub> /Tartaric Acid Dilution 1:100
<b>CGSB1-30ML</b> <b>CGSB1-125ML</b> <b>CGSB1-500ML</b>	Volume: 30 mL Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Sb	1,000

Interference Check Standard			
<b>2007ICS-1</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>2007ICS-1-125ML</b> <b>2007ICS-1-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
B	500	Si	230
Mo	300	Ti	1,000

Interference Check Standard			
<b>2007ICS-3</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>2007ICS-3-125ML</b> <b>2007ICS-3-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	300	K	20,000
As	1,000	Mn	200
Ba	300	Ni	300
Be	100	Pb	1,000
Cd	300	Se	500
Co	300	Tl	1,000
Cr	300	V	300
Cu	300	Zn	300

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

## 200.7 Quality Controls

Quality Control Standard <sup>†</sup>		
<b>QCP-QCS-1</b>		Matrix: HNO <sub>3</sub> Dilution 1:100
<b>QCP-QCS-1-125ML</b>		Volume: 125 mL
<b>QCP-QCS-1-500ML</b>		Volume: 500 mL
Analyte	µg/mL	λ(nm)
Ag	25	328.068
Al	100	308.215
As	200	193.759
B	100	249.678
Ba	100	493.409
Be	100	313.042
Ca	100	315.887
Cd	100	226.502
Ce	100	413.765
Co	100	228.616
Cr	100	205.552
Cu	100	324.754
Fe	100	259.940
Hg	200	194.227
K	500	766.491
Li	100	670.784
Mg	100	279.079
Mn	100	257.610
Na	100	588.995
Ni	100	231.604
P	500	214.914
Pb	200	220.353
Se	100	196.090
Sr	100	421.552
Tl	500	190.864
V	100	292.402
Zn	100	213.856

Quality Control Standard <sup>†</sup>		
<b>QCP-QCS-2</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100
<b>QCP-QCS-2-125ML</b>		Volume: 125 mL
<b>QCP-QCS-2-500ML</b>		Volume: 500 mL
Analyte	µg/mL	λ(nm)
Mo	100	203.844
Sb	200	206.833
SiO <sub>2</sub>	500	251.611
Sn	500	189.980
Ti	100	334.941

Quality Control Standard <sup>†</sup>			
<b>IV-7</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>IV-7-125ML</b>		Volume: 125 mL	
<b>IV-7-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	K	1,000
Al	100	Na	100
B	100	Si	50
Ba	100		

Quality Control Standard <sup>†</sup>			
<b>IV-19</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>IV-19-125ML</b>		Volume: 125 mL	
<b>IV-19-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	100	Mo	100
Be	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb	100
Co	100	Se	100
Cr	100	Ti	100
Cu	100	Tl	100
Fe	100	V	100
Mg	100	Zn	100
Mn	100		

<sup>†</sup>Manufactured from in-house Second Source concentrates, whenever possible.

Method 200.7

200.7 Quality Controls

Quality Control Standard†			
<b>IV-21</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>IV-21-125ML</b>		Volume: 125 mL	
<b>IV-21-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	100	Mo	100
Be	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	Tl	100
Li	100	V	100
Mg	100	Zn	100
Mn	100		

Quality Control Standard†			
<b>IV-26</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>IV-26-125ML</b>		Volume: 125 mL	
<b>IV-26-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Mo	100
B	100	Na	100
Ba	100	Ni	100
Be	100	Pb	100
Ca	100	Sb	100
Cd	100	Se	100
Co	100	Si	50
Cr	100	Ti	100
Cu	100	Tl	100
Fe	100	V	100
K	1,000	Zn	100

Quality Control Standard†			
<b>IV-28</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>IV-28-125ML</b>		Volume: 125 mL	
<b>IV-28-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Mo	100
B	100	Na	100
Ba	100	Ni	100
Be	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	Tl	100
K	1,000	V	100
Li	100	Zn	100



Don't see what you need?

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

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

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

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

Calibration Standard		
<b>WW-CAL-1A</b>	Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>WW-CAL-1A-125ML</b> <b>WW-CAL-1A-500ML</b>	Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	λ(nm)
<b>Ag</b>	50	328.068
<b>As</b>	1,000	193.759
<b>B</b>	100	249.678
<b>Ba</b>	100	493.409
<b>Ca</b>	1,000	315.887
<b>Cd</b>	200	226.502
<b>Cu</b>	200	324.754
<b>Mn</b>	200	257.610
<b>Se</b>	500	196.090
<b>Sr</b>	100	421.552

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

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

Calibration Standard		
<b>WW-CAL-3</b>	Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>WW-CAL-3-125ML</b> <b>WW-CAL-3-500ML</b>	Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	λ(nm)
<b>Ce</b>	200	413.765
<b>Co</b>	200	228.616
<b>P</b>	1,000	214.914
<b>V</b>	200	292.402

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

Calibration Standard		
<b>WW-CAL-4B</b>	Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>WW-CAL-4B-125ML</b> <b>WW-CAL-4B-500ML</b>	Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	λ(nm)
<b>SiO<sub>2</sub></b>	1,000	251.611
<b>Sn</b>	400	189.980

Calibration Standard		
<b>WW-CAL-5</b>	Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>WW-CAL-5-125ML</b> <b>WW-CAL-5-500ML</b>	Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	λ(nm)
<b>Be</b>	100	313.042
<b>Fe</b>	1,000	259.940
<b>Mg</b>	1,000	279.079
<b>Ni</b>	200	231.604
<b>Pb</b>	1,000	220.353
<b>Tl</b>	500	190.864

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

Instrument Performance Check		
<b>WW-IPC-1</b>		Matrix: HNO <sub>3</sub> Dilution 1:100
<b>WW-IPC-1-125ML</b> <b>WW-IPC-1-500ML</b>		Volume: 125 mL Volume: 500 mL
Analyte	µg/mL	λ(nm)
Ag	25	328.068
Al	200	308.215
As	200	193.759
B	200	249.678
Ba	200	493.409
Be	200	313.042
Ca	200	315.887
Cd	200	226.502
Ce	200	413.765
Co	200	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	200	279.079
Mn	200	257.610
Na	200	588.995
Ni	200	231.604
P	1,000	214.914
Pb	200	220.353
Se	200	196.090
Sr	200	421.552
Tl	200	190.864
V	200	292.402
Zn	200	213.856

Instrument Performance Check		
<b>WW-IPC-3</b>		Matrix: HNO <sub>3</sub> Dilution 1:100
<b>WW-IPC-3-125ML</b> <b>WW-IPC-3-500ML</b>		Volume: 125 mL Volume: 500 mL
Analyte	µg/mL	λ(nm)
Ag	25	328.068
Al	200	308.215
As	200	193.759
B	200	249.678
Ba	200	493.409
Be	200	313.042
Ca	200	315.887
Cd	200	226.502
Co	200	228.616
Cr	200	205.552
Cu	200	324.754
Fe	200	259.940
K	1,000	766.491
Li	200	670.784
Mg	200	279.079
Mn	200	257.610
Na	200	588.995
Ni	200	231.604
P	1,000	214.914
Pb	200	220.353
Se	200	196.090
Sr	200	421.552
Tl	200	190.864
V	200	292.402
Zn	200	213.856

Instrument Performance Check		
<b>WW-IPC-2</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100
<b>WW-IPC-2-125ML</b> <b>WW-IPC-2-500ML</b>		Volume: 125 mL Volume: 500 mL
Analyte	µg/mL	λ(nm)
Mo	200	203.844
Sb	200	206.833
SiO <sub>2</sub>	1,000	251.611
Sn	200	189.980
Ti	200	334.941

Method 200.7

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

Laboratory Fortified Stock Solution		
<b>WW-LFS-1</b>		Matrix: HNO <sub>3</sub> Dilution 1:100
<b>WW-LFS-1-125ML</b>		Volume: 125 mL
<b>WW-LFS-1-500ML</b>		Volume: 500 mL
Analyte	µg/mL	λ(nm)
Ag	7.5	328.068
Al	200	308.215
As	80	193.759
B	30	249.678
Ba	20	493.409
Be	20	313.042
Ca	100	315.887
Cd	20	226.502
Ce	200	413.765
Co	20	228.616
Cr	40	205.552
Cu	30	324.754
Fe	300	259.940
Hg	70	194.227
K	1,000	766.491
Li	20	670.784
Mg	200	279.079
Mn	20	257.610
Na	300	588.995
Ni	50	231.604
P	600	214.914
Pb	100	220.353
Se	200	196.090
Sr	20	421.552
Tl	200	190.864
V	30	292.402
Zn	20	213.856

Laboratory Fortified Stock Solution		
<b>WW-LFS-2</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100
<b>WW-LFS-2-125ML</b>		Volume: 125 mL
<b>WW-LFS-2-500ML</b>		Volume: 500 mL
Analyte	µg/mL	λ(nm)
Mo	40	203.844
Sb	80	206.833
SiO <sub>2</sub>	200	251.611
Sn	70	189.980
Ti	20	334.941



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### Introducing Transpiration Control Technology (TCT)

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

Quality Control Standard <sup>†</sup>		
<b>QCP-QCS-1</b>		Matrix: HNO <sub>3</sub> Dilution 1:100
<b>QCP-QCS-1-125ML</b> <b>QCP-QCS-1-500ML</b>		Volume: 125 mL Volume: 500 mL
Analyte	µg/mL	λ(nm)
Ag	25	328.068
Al	100	308.215
As	200	193.759
B	100	249.678
Ba	100	493.409
Be	100	313.042
Ca	100	315.887
Cd	100	226.502
Ce	100	413.765
Co	100	228.616
Cr	100	205.552
Cu	100	324.754
Fe	100	259.940
Hg	200	194.227
K	500	766.491
Li	100	670.784
Mg	100	279.079
Mn	100	257.610
Na	100	588.995
Ni	100	231.604
P	500	214.914
Pb	200	220.353
Se	100	196.090
Sr	100	421.552
Tl	500	190.864
V	100	292.402
Zn	100	213.856

Quality Control Standard <sup>†</sup>		
<b>QCP-QCS-2</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100
<b>QCP-QCS-2-125ML</b> <b>QCP-QCS-2-500ML</b>		Volume: 125 mL Volume: 500 mL
Analyte	µg/mL	λ(nm)
Mo	100	203.844
Sb	200	206.833
SiO <sub>2</sub>	500	251.611
Sn	500	189.980
Ti	100	334.941

Quality Control Standard <sup>†</sup>			
<b>IV-7</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>IV-7-125ML</b> <b>IV-7-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	K	1,000
Al	100	Na	100
B	100	Si	50
Ba	100		

Quality Control Standard <sup>†</sup>			
<b>IV-19</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>IV-19-125ML</b> <b>IV-19-500ML</b>		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	100	Mo	100
Be	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb	100
Co	100	Se	100
Cr	100	Ti	100
Cu	100	Tl	100
Fe	100	V	100
Mg	100	Zn	100
Mn	100		

<sup>†</sup>Manufactured from in-house Second Source concentrates, whenever possible.



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

Quality Control Standard†			
IV-21		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
IV-21-125ML		Volume: 125 mL	
IV-21-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
As	100	Mo	100
Be	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	Tl	100
Li	100	V	100
Mg	100	Zn	100
Mn	100		

Quality Control Standard†			
IV-26		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
IV-26-125ML		Volume: 125 mL	
IV-26-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Mo	100
B	100	Na	100
Ba	100	Ni	100
Be	100	Pb	100
Ca	100	Sb	100
Cd	100	Se	100
Co	100	Si	50
Cr	100	Ti	100
Cu	100	Tl	100
Fe	100	V	100
K	1,000	Zn	100

Quality Control Standard†			
IV-28		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
IV-28-125ML		Volume: 125 mL	
IV-28-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Mo	100
B	100	Na	100
Ba	100	Ni	100
Be	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	Tl	100
K	1,000	V	100
Li	100	Zn	100

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

Method 200.8

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			
<b>2008CAL-1</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>2008CAL-1-125ML</b>		Volume: 125 mL	
<b>2008CAL-1-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Mo</b>	20	<b>Sb</b>	20

Designed for Rev. 4.4 and 5.4.

Calibration Standard	
<b>WW-MSCAL-1</b>	Matrix: HNO <sub>3</sub> Dilution 1:1,000
<b>WW-MSCAL-1-125ML</b>	Volume: 125 mL
<b>WW-MSCAL-1-500ML</b>	Volume: 500 mL
Analyte	µg/mL
<b>Hg</b>	5

Designed for Rev. 5.4.

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

Designed for Rev. 4.4.

Calibration Standard			
<b>WW-MSCAL-2</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>WW-MSCAL-2-125ML</b>		Volume: 125 mL	
<b>WW-MSCAL-2-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	20	<b>Mn</b>	20
<b>Al</b>	20	<b>Ni</b>	20
<b>As</b>	20	<b>Pb</b>	20
<b>Ba</b>	20	<b>Se</b>	100
<b>Be</b>	20	<b>Th</b>	20
<b>Cd</b>	20	<b>Tl</b>	20
<b>Co</b>	20	<b>U</b>	20
<b>Cr</b>	20	<b>V</b>	20
<b>Cu</b>	20	<b>Zn</b>	20

Designed for Rev. 5.4.

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

## Rev. 4.4 &amp; 5.4 Internal Standards

Internal Standard			
<b>2008ISS</b>		Matrix: HNO <sub>3</sub> Dilution 1:100 to 1:1,000	
<b>2008ISS-125ML</b>		Volume: 125 mL	
<b>2008ISS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Bi</b>	20	<b>Tb</b>	20
<b>In</b>	20	<b>Y</b>	20
<b>Sc</b>	20		

Designed for Rev. 4.4 and 5.4. Recommended working level is 200 µg/L for Rev. 4.4; 20-200 µg/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	
<b>CGAUN1</b>	Matrix: HNO <sub>3</sub> Dilution 1:100
<b>CGAUN1-30ML</b>	Volume: 30 mL
<b>CGAUN1-125ML</b>	Volume: 125 mL
<b>CGAUN1-500ML</b>	Volume: 500 mL
Analyte	µg/mL
<b>Au</b>	1,000

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

## Rev. 4.4 &amp; 5.4 Quality Controls

Quality Control Standard <sup>†</sup>			
<b>QCP-QCS-3</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>QCP-QCS-3-125ML</b>		Volume: 125 mL	
<b>QCP-QCS-3-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	10	<b>Mn</b>	10
<b>Al</b>	10	<b>Mo</b>	10
<b>As</b>	10	<b>Na</b>	10
<b>Ba</b>	10	<b>Ni</b>	10
<b>Be</b>	10	<b>Pb</b>	10
<b>Ca</b>	10	<b>Sb</b>	10
<b>Cd</b>	10	<b>Se</b>	50
<b>Co</b>	10	<b>Th</b>	10
<b>Cr</b>	10	<b>Tl</b>	10
<b>Cu</b>	10	<b>U</b>	10
<b>Fe</b>	10	<b>V</b>	10
<b>K</b>	10	<b>Zn</b>	10
<b>Mg</b>	10		

Designed for Rev. 4.4 and 5.4.

Quality Control Standard <sup>†</sup>	
<b>QCP-QCS-4</b>	Matrix: HNO <sub>3</sub> Dilution 1:100
<b>QCP-QCS-4-125ML</b>	Volume: 125 mL
<b>QCP-QCS-4-500ML</b>	Volume: 500 mL
Analyte	µg/mL
<b>Hg</b>	5

Designed for Rev. 4.4 and 5.4.

<sup>†</sup>Manufactured from in-house Second Source concentrates, whenever possible.

## Rev. 4.4 &amp; 5.4 Tuning

Tuning Solution			
<b>2008TS</b>		Matrix: HNO <sub>3</sub> Dilution 1:100 to 1:1,000	
<b>2008TS-125ML</b>		Volume: 125 mL	
<b>2008TS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Be</b>	10	<b>Mg</b>	10
<b>Co</b>	10	<b>Pb</b>	10
<b>In</b>	10		

Designed for Rev. 4.4 and 5.4.

Method 6020

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 <sub>3</sub> / HF Dilution 1:100	
6020CAL-1-125ML		Volume: 125 mL	
6020CAL-1-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	20	K	20
Al	20	Mg	20
As	20	Mn	20
Ba	20	Na	20
Be	20	Ni	20
Ca	20	Pb	20
Cd	20	Sb	20
Co	20	Se	20
Cr	20	Tl	20
Cu	20	V	20
Fe	20	Zn	20

Interference Check Standard			
6020ICS-8A		Matrix: HNO <sub>3</sub> Dilution 1:10	
6020ICS-8A-125ML		Volume: 125 mL	
6020ICS-8A-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	1,000	Mg	1,000
C	2,000	Mo	20
Ca	3,000	Na	2,500
Cl <sup>-</sup>	18,000	P	1,000
Fe	2,500	S	1,000
K	1,000	Ti	20

Internal Standard			
6020ISS		Matrix: HNO <sub>3</sub> Dilution 1:100	
6020ISS-125ML		Volume: 125 mL	
6020ISS-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	10	Rh	10
Ho	10	Sc	10
In	10	Tb	10
<sup>6</sup> Li	10	Y	10

Spike Standard – Soil			
6020SPK-S		Matrix: HNO <sub>3</sub> Dilution 1:100	
6020SPK-S-125ML		Volume: 125 mL	
6020SPK-S-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Ni	25
As	10	Pb	20
Ba	50	Sb	20
Be	5	Se	5
Cd	10	Tl	5
Co	20	V	30
Cr	50	Zn	50
Cu	50		

Spike Standard – Water			
6020SPK-W		Matrix: HNO <sub>3</sub> Dilution 1:100	
6020SPK-W-125ML		Volume: 125 mL	
6020SPK-W-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	5	Mn	20
As	10	Ni	20
Ba	50	Pb	10
Be	5	Sb	20
Cd	5	Se	5
Co	20	Tl	5
Cr	20	V	20
Cu	20	Zn	50
Fe	100		

Tuning Solution			
6020TS		Matrix: HNO <sub>3</sub> Dilution 1:100	
6020TS-125ML		Volume: 125 mL	
6020TS-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Co	10	Li	10
In	10	Tl	10

## CLP-M Version 9

Calibration Standard			
<b>6020CAL-1</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>6020CAL-1-125ML</b>		Volume: 125 mL	
<b>6020CAL-1-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	20	K	20
Al	20	Mg	20
As	20	Mn	20
Ba	20	Na	20
Be	20	Ni	20
Ca	20	Pb	20
Cd	20	Sb	20
Co	20	Se	20
Cr	20	Tl	20
Cu	20	V	20
Fe	20	Zn	20

Interference Check Standard			
<b>6020ICS-9A</b>		Matrix: HNO <sub>3</sub> Dilution 1:10	
<b>6020ICS-9A-125ML</b>		Volume: 125 mL	
<b>6020ICS-9A-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	1,000	Mg	1,000
C	2,000	Mo	20
Ca	3,000	Na	2,500
Cl <sup>-</sup>	21,215	P	1,000
Fe	2,500	S	1,000
K	1,000	Ti	20

Interference Check Standard			
<b>6020ICS-9B</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020ICS-9B-125ML</b>		Volume: 125 mL	
<b>6020ICS-9B-500ML</b>		Volume: 500 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		

Internal Standard			
<b>6020ISS</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020ISS-125ML</b>		Volume: 125 mL	
<b>6020ISS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	10	Rh	10
Ho	10	Sc	10
In	10	Tb	10
<sup>6</sup> Li	10	Y	10

Spike Standard – Soil			
<b>6020SPK-S</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020SPK-S-125ML</b>		Volume: 125 mL	
<b>6020SPK-S-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Ni	25
As	10	Pb	20
Ba	50	Sb	20
Be	5	Se	5
Cd	10	Tl	5
Co	20	V	30
Cr	50	Zn	50
Cu	50		

Spike Standard – Water			
<b>6020SPK-W</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020SPK-W-125ML</b>		Volume: 125 mL	
<b>6020SPK-W-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	5	Mn	20
As	10	Ni	20
Ba	50	Pb	10
Be	5	Sb	20
Cd	5	Se	5
Co	20	Tl	5
Cr	20	V	20
Cu	20	Zn	50
Fe	100		

CLP-M Version 9

Tuning Solution			
<b>6020TS</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020TS-125ML</b>		Volume: 125 mL	
<b>6020TS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Co</b>	10	<b>Li</b>	10
<b>In</b>	10	<b>Tl</b>	10

REV. 0

Calibration Standard			
<b>6020CAL-1</b>		Matrix: HNO <sub>3</sub> / HF Dilution 1:100	
<b>6020CAL-1-125ML</b>		Volume: 125 mL	
<b>6020CAL-1-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	20	<b>K</b>	20
<b>Al</b>	20	<b>Mg</b>	20
<b>As</b>	20	<b>Mn</b>	20
<b>Ba</b>	20	<b>Na</b>	20
<b>Be</b>	20	<b>Ni</b>	20
<b>Ca</b>	20	<b>Pb</b>	20
<b>Cd</b>	20	<b>Sb</b>	20
<b>Co</b>	20	<b>Se</b>	20
<b>Cr</b>	20	<b>Tl</b>	20
<b>Cu</b>	20	<b>V</b>	20
<b>Fe</b>	20	<b>Zn</b>	20

Internal Standard			
<b>6020ISS</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020ISS-125ML</b>		Volume: 125 mL	
<b>6020ISS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Bi</b>	10	<b>Rh</b>	10
<b>Ho</b>	10	<b>Sc</b>	10
<b>In</b>	10	<b>Tb</b>	10
<b><sup>6</sup>Li</b>	10	<b>Y</b>	10

Interference Check Standard			
<b>6020ICS-0A</b>		Matrix: HNO <sub>3</sub> Dilution 1:10	
<b>6020ICS-0A-125ML</b>		Volume: 125 mL	
<b>6020ICS-0A-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Al</b>	1,000	<b>Mg</b>	1,000
<b>C</b>	2,000	<b>Mo</b>	20
<b>Ca</b>	1,000	<b>Na</b>	1,000
<b>Cl<sup>-</sup></b>	10,000	<b>P</b>	1,000
<b>Fe</b>	1,000	<b>S</b>	1,000
<b>K</b>	1,000	<b>Ti</b>	20

Interference Check Standard			
<b>6020ICS-0B</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020ICS-0B-125ML</b>		Volume: 125 mL	
<b>6020ICS-0B-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	2	<b>Cu</b>	2
<b>As</b>	2	<b>Mn</b>	2
<b>Cd</b>	2	<b>Ni</b>	2
<b>Co</b>	2	<b>Zn</b>	2
<b>Cr</b>	2		

REV. 0

Spike Standard – Soil			
<b>6020SPK-S</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020SPK-S-125ML</b>		Volume: 125 mL	
<b>6020SPK-S-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	10	<b>Ni</b>	25
<b>As</b>	10	<b>Pb</b>	20
<b>Ba</b>	50	<b>Sb</b>	20
<b>Be</b>	5	<b>Se</b>	5
<b>Cd</b>	10	<b>Tl</b>	5
<b>Co</b>	20	<b>V</b>	30
<b>Cr</b>	50	<b>Zn</b>	50
<b>Cu</b>	50		

Tuning Solution			
<b>6020TS</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020TS-125ML</b>		Volume: 125 mL	
<b>6020TS-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Co</b>	10	<b>Li</b>	10
<b>In</b>	10	<b>Tl</b>	10

Spike Standard – Water			
<b>6020SPK-W</b>		Matrix: HNO <sub>3</sub> Dilution 1:100	
<b>6020SPK-W-125ML</b>		Volume: 125 mL	
<b>6020SPK-W-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
<b>Ag</b>	5	<b>Mn</b>	20
<b>As</b>	10	<b>Ni</b>	20
<b>Ba</b>	50	<b>Pb</b>	10
<b>Be</b>	5	<b>Sb</b>	20
<b>Cd</b>	5	<b>Se</b>	5
<b>Co</b>	20	<b>Tl</b>	5
<b>Cr</b>	20	<b>V</b>	20
<b>Cu</b>	20	<b>Zn</b>	50
<b>Fe</b>	100		



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Custom anion standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Acetate, $C_2H_3O_2^-$	H <sub>2</sub> O	Sodium acetate	125 mL	ICOAC1-125ML
			500 mL	ICOAC1-500ML
Adipate, $C_6H_8O_4^{-2}$	H <sub>2</sub> O	Adipic acid	125 mL	ICADP1-125ML
			500 mL	ICADP1-500ML
Benzoate, $C_6H_5CO_2^-$	H <sub>2</sub> O	Benzoic acid	125 mL	ICBEN1-125ML
			500 mL	ICBEN1-500ML
Bromate, $BrO_3^-$	H <sub>2</sub> O	KBrO <sub>3</sub>	125 mL	ICBRO31-125ML
			500 mL	ICBRO31-500ML
Bromide, $Br^-$	H <sub>2</sub> O	KBr	125 mL	ICBR1-125ML
			500 mL	ICBR1-500ML
Butyrate, $C_4H_7O_2^-$	H <sub>2</sub> O	Butyric acid	125 mL	ICBTR1-125ML
			500 mL	ICBTR1-500ML
Carbonate, $CO_3^{-2}$	H <sub>2</sub> O	Na <sub>2</sub> CO <sub>3</sub>	125 mL	ICCO31-125ML
			500 mL	ICCO31-500ML
Chlorate, $ClO_3^-$	H <sub>2</sub> O	KClO <sub>3</sub>	125 mL	ICCLO31-125ML
			500 mL	ICCLO31-500ML
Chloride, $Cl^-$	H <sub>2</sub> O	KCl	125 mL	ICCL1-125ML
			500 mL	ICCL1-500ML
Chlorite, $ClO_2^-$	H <sub>2</sub> O	NaClO <sub>2</sub>	125 mL	ICCLO21-125ML
			500 mL	ICCLO21-500ML
Chromate, $CrO_4^{-2}$	H <sub>2</sub> O	(NH <sub>4</sub> ) <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	125 mL	ICCRO41-125ML
			500 mL	ICCRO41-500ML
Citrate, $C_6H_5O_7^{-3}$	H <sub>2</sub> O	Citric acid	125 mL	ICCIT1-125ML
			500 mL	ICCIT1-500ML
Cyanide, NaCN	H <sub>2</sub> O	Sodium cyanide	20 mL	CN-1000-25-20ML
Fluoride, $F^-$	H <sub>2</sub> O	NaF	125 mL	ICF1-125ML
			500 mL	ICF1-500ML
Formate, $HCO_2^-$	H <sub>2</sub> O	Sodium formate	125 mL	ICHCO1-125ML
			500 mL	ICHCO1-500ML
Glutarate, $C_5H_6O_4^{-2}$	H <sub>2</sub> O	Glutaric acid	125 mL	ICGTR1-125ML
			500 mL	ICGTR1-500ML
Glycolate, $C_2H_3O_3^-$	H <sub>2</sub> O	Glycolic acid	125 mL	ICGLY1-125ML
			500 mL	ICGLY1-500ML
Iodide, $I^-$	H <sub>2</sub> O / stabilizer	NH <sub>4</sub> I	125 mL	ICI1-125ML
			500 mL	ICI1-500ML
Lactate, $C_3H_5O_3^-$	H <sub>2</sub> O	Lactic acid	125 mL	ICLCT1-125ML
			500 mL	ICLCT1-500ML
Malate, $C_4H_4O_5^{-2}$	H <sub>2</sub> O	Malic acid	125 mL	ICMLA1-125ML
			500 mL	ICMLA1-500ML
Maleate, $C_4H_2O_4^{-2}$	H <sub>2</sub> O	Maleic acid	125 mL	ICMLE1-125ML
			500 mL	ICMLE1-500ML
Malonate, $C_3H_2O_4^{-2}$	H <sub>2</sub> O	Malonic acid	125 mL	ICMLO1-125ML
			500 mL	ICMLO1-500ML
Methanesulfonate, $CH_3SO_3^-$	H <sub>2</sub> O	Methanesulfonic acid	125 mL	ICMSA1-125ML
			500 mL	ICMSA1-500ML
Nitrate, $NO_3^-$	H <sub>2</sub> O	NaNO <sub>3</sub>	125 mL	ICNO31-125ML
			500 mL	ICNO31-500ML

1,000 µg/mL Anions

Custom anion standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Nitrate as Nitrogen	H <sub>2</sub> O	NaNO <sub>3</sub>	125 mL	ICNNO31-125ML
			500 mL	ICNNO31-500ML
Nitrilotriacetate, NC <sub>6</sub> H <sub>6</sub> O <sub>6</sub> <sup>-3</sup>	H <sub>2</sub> O	Nitrilotriacetic acid	125 mL	ICNTA1-125ML
			500 mL	ICNTA1-500ML
Nitrite, NO <sub>2</sub> <sup>-</sup>	H <sub>2</sub> O	NaNO <sub>2</sub>	125 mL	ICNO21-125ML
			500 mL	ICNO21-500ML
Nitrite as Nitrogen	H <sub>2</sub> O	NaNO <sub>2</sub>	125 mL	ICNNO21-125ML
			500 mL	ICNNO21-500ML
Oxalate, C <sub>2</sub> O <sub>4</sub> <sup>-2</sup>	H <sub>2</sub> O	Sodium oxalate	125 mL	ICCOXA1-125ML
			500 mL	ICCOXA1-500ML
Perchlorate, ClO <sub>4</sub> <sup>-</sup>	H <sub>2</sub> O	KClO <sub>4</sub>	125 mL	ICCLO41-125ML
			500 mL	ICCLO41-500ML
Phosphate, PO <sub>4</sub> <sup>-3</sup>	H <sub>2</sub> O	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	125 mL	ICPO41-125ML
			500 mL	ICPO41-500ML
Phosphate as Phosphorus	H <sub>2</sub> O	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	125 mL	ICPPO41-125ML
			500 mL	ICPPO41-500ML
Phthalate, C <sub>6</sub> H <sub>4</sub> (CO <sub>2</sub> ) <sub>2</sub> <sup>-2</sup>	H <sub>2</sub> O	Potassium hydrogen phthalate	125 mL	ICKHP1-125ML
			500 mL	ICKHP1-500ML
Propionate, C <sub>2</sub> H <sub>5</sub> CO <sub>2</sub> <sup>-</sup>	H <sub>2</sub> O	Sodium propionate	125 mL	ICOPR1-125ML
			500 mL	ICOPR1-500ML
Succinate, C <sub>4</sub> H <sub>4</sub> O <sub>4</sub> <sup>-2</sup>	H <sub>2</sub> O	Succinic acid	125 mL	ICSCC1-125ML
			500 mL	ICSCC1-500ML
Sulfate, SO <sub>4</sub> <sup>-2</sup>	H <sub>2</sub> O	K <sub>2</sub> SO <sub>4</sub>	125 mL	ICSO41-125ML
			500 mL	ICSO41-500ML
Tartrate, C <sub>4</sub> H <sub>4</sub> O <sub>6</sub> <sup>-2</sup>	H <sub>2</sub> O	Tartaric acid	125 mL	ICTRTR1-125ML
			500 mL	ICTRTR1-500ML
Thiocyanate, SCN <sup>-</sup>	H <sub>2</sub> O	KSCN	125 mL	ICSCN1-125ML
			500 mL	ICSCN1-500ML
Thiosulfate, S <sub>2</sub> O <sub>3</sub> <sup>-2</sup>	H <sub>2</sub> O	Sodium thiosulfate	125 mL	ICS2031-125ML
			500 mL	ICS2031-500ML

Custom anion standards are available upon request.

10,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Chloride, Cl <sup>-</sup>	H <sub>2</sub> O	KCl	125 mL	ICCL10-125ML
			500 mL	ICCL10-500ML
Sulfate, SO <sub>4</sub> <sup>-2</sup>	H <sub>2</sub> O	K <sub>2</sub> SO <sub>4</sub>	125 mL	ICSO410-125ML
			500 mL	ICSO410-500ML

Custom anion standards are available upon request.

100 ppm

ANALYTE	MATRIX	µg/mL	VOLUME	CATALOG #
Nitrite, NO <sub>2</sub> <sup>-</sup>	H <sub>2</sub> O	100	125 mL	ICNO2-100PPM-125ML
			500 mL	ICNO2-100PPM-500ML

100 ppm

1,000 µg/mL Cations

Custom cation standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
<b>3-Methoxypropylamine</b> $\text{CH}_3\text{O}(\text{CH}_2)_3\text{NH}_2$	HCl	3-Methoxypropylamine	125 mL 500 mL	ICMPA1-125ML ICMPA1-500ML
<b>Ammonium, <math>\text{NH}_4^+</math></b>	$\text{H}_2\text{O}$	$\text{NH}_4\text{Cl}$	125 mL 500 mL	ICNH41-125ML ICNH41-500ML
<b>Ammonium as Nitrogen</b>	$\text{H}_2\text{O}$	$\text{NH}_4\text{Cl}$	125 mL 500 mL	ICNNH41-125ML ICNNH41-500ML
<b>Barium, <math>\text{Ba}^{+2}</math></b>	$\text{HNO}_3$	$\text{Ba}(\text{NO}_3)_2$	125 mL 500 mL	ICBA1-125ML ICBA1-500ML
<b>Calcium, <math>\text{Ca}^{+2}</math></b>	$\text{HNO}_3$	CaO	125 mL 500 mL	ICCA1-125ML ICCA1-500ML
<b>Cesium, <math>\text{Cs}^+</math></b>	$\text{HNO}_3$	$\text{CsNO}_3$	125 mL 500 mL	ICCS1-125ML ICCS1-500ML
<b>Diethanolamine,</b> $(\text{HOCH}_2\text{CH}_2)_2\text{NH}$	$\text{H}_2\text{O}$	Diethanolamine	125 mL 500 mL	ICDEA1-125ML ICDEA1-500ML
<b>Dimethylamine,</b> $\text{NH}(\text{CH}_3)_2$	HCl	Dimethylamine	125 mL 500 mL	ICDMA1-125ML ICDMA1-500ML
<b>Lithium, <math>\text{Li}^+</math></b>	$\text{HNO}_3$	$\text{Li}_2\text{CO}_3$	125 mL 500 mL	ICLI1-125ML ICLI1-500ML
<b>Magnesium, <math>\text{Mg}^{+2}</math></b>	$\text{HNO}_3$	Mg metal	125 mL 500 mL	ICMG1-125ML ICMG1-500ML
<b>Monoethanolamine,</b> $\text{HOCH}_2\text{CH}_2\text{NH}_2$	$\text{H}_2\text{O}$	Monoethanolamine	125 mL 500 mL	ICMEA1-125ML ICMEA1-500ML
<b>Monomethylamine,</b> $\text{NH}_2\text{CH}_3$	HCl	Monomethylamine	125 mL 500 mL	ICMMA1-125ML ICMMA1-500ML
<b>Potassium, <math>\text{K}^+</math></b>	$\text{HNO}_3$	$\text{KNO}_3$	125 mL 500 mL	ICK1-125ML ICK1-500ML
<b>Rubidium, <math>\text{Rb}^+</math></b>	$\text{HNO}_3$	$\text{RbNO}_3$	125 mL 500 mL	ICRB1-125ML ICRB1-500ML
<b>Sodium, <math>\text{Na}^+</math></b>	$\text{HNO}_3$	$\text{Na}_2\text{CO}_3$	125 mL 500 mL	ICNA1-125ML ICNA1-500ML
<b>Strontium, <math>\text{Sr}^{+2}</math></b>	$\text{HNO}_3$	$\text{SrCO}_3$	125 mL 500 mL	ICSR1-125ML ICSR1-500ML
<b>Tetramethylammonium,</b> $\text{N}^+(\text{CH}_3)_4$	$\text{H}_2\text{O}$	Tetramethylammonium hydroxide	125 mL 500 mL	ICTMAH1-125ML ICTMAH1-500ML
<b>Triethanolamine,</b> $(\text{HOCH}_2\text{CH}_2)_3\text{N}$	$\text{H}_2\text{O}$	Triethanolamine	125 mL 500 mL	ICTEA1-125ML ICTEA1-500ML
<b>Triethylamine,</b> $(\text{CH}_3\text{CH}_2)_3\text{N}$	HCl	Triethylamine	125 mL 500 mL	ICTA1-125ML ICTA1-500ML
<b>Trimethylamine,</b> $(\text{CH}_3)_3\text{N}$	HCl	Trimethylamine	125 mL 500 mL	ICTMA1-125ML ICTMA1-500ML

Anion Calibration Standard			
<b>IC-FAS-1A</b> <b>I</b>		Matrix: H <sub>2</sub> O	
<b>IC-FAS-1A-125ML</b>		Volume: 125 mL	
<b>IC-FAS-1A-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Br <sup>-</sup>	100	NO <sub>2</sub> <sup>-</sup>	100
Cl <sup>-</sup>	30	PO <sub>4</sub> <sup>-3</sup>	150
F <sup>-</sup>	20	SO <sub>4</sub> <sup>-2</sup>	150
NO <sub>3</sub> <sup>-</sup>	100		

Anion Calibration Standard			
<b>IV-STOCK-59</b> <b>I</b>		Matrix: H <sub>2</sub> O	
<b>IV-STOCK-59-125ML</b>		Volume: 125 mL	
<b>IV-STOCK-59-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Br <sup>-</sup>	1000	NO <sub>2</sub> <sup>-</sup>	1000
Cl <sup>-</sup>	1000	PO <sub>4</sub> <sup>-3</sup>	1000
F <sup>-</sup>	1000	SO <sub>4</sub> <sup>-2</sup>	1000
NO <sub>3</sub> <sup>-</sup>	1000		

Cation Calibration Standard			
<b>IC-SCS1</b> <b>I</b>		Matrix: HNO <sub>3</sub>	
<b>IC-SCS1-125ML</b>		Volume: 125 mL	
<b>IC-SCS1-500ML</b>		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ca <sup>+2</sup>	1,000	Mg <sup>+2</sup>	200
K <sup>+</sup>	200	Na <sup>+</sup>	200
Li <sup>+</sup>	50	NH <sub>4</sub> <sup>+</sup>	400

Used for daily calibration.

Anion Mix A	
<b>IV-STOCK-61</b>	Matrix: H <sub>2</sub> O
<b>IV-STOCK-61-125ML</b>	Volume: 125 mL
<b>IV-STOCK-61-500ML</b>	Volume: 500 mL
Analyte	Range
Br <sup>-</sup>	20
F <sup>-</sup>	10
NO <sub>2</sub> <sup>-</sup>	20
SO <sub>4</sub> <sup>-2</sup>	30
Cl <sup>-</sup>	20
NO <sub>3</sub> <sup>-</sup>	20
PO <sub>4</sub> <sup>-3</sup>	30

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

Used for daily calibration.

Cation Mix B	
<b>IV-STOCK-62</b>	Matrix: H <sub>2</sub> O
<b>IV-STOCK-62-125ML</b>	Volume: 125 mL
<b>IV-STOCK-62-500ML</b>	Volume: 500 mL
Analyte	Range
Br <sup>-</sup>	20
F <sup>-</sup>	10
NO <sub>2</sub> <sup>-</sup>	20
SO <sub>4</sub> <sup>-2</sup>	30
Cl <sup>-</sup>	20
NO <sub>3</sub> <sup>-</sup>	20
PO <sub>4</sub> <sup>-3</sup>	30

**I** Common Multi-Ion Standards

# ION CHROMATOGRAPHY MULTI-ION STANDARDS

## Multi-Ion Standards

Anion Mix 4	
<b>IV-STOCK-63</b>	Matrix: H <sub>2</sub> O
<b>IV-STOCK-63-125ML</b> <b>IV-STOCK-63-500ML</b>	Volume: 125 mL Volume: 500 mL
Analyte	Range
Br <sup>-</sup>	40
F <sup>-</sup>	20
NO <sub>2</sub> <sup>-</sup>	40
Cl <sup>-</sup>	40
NO <sub>3</sub> <sup>-</sup>	40
SO <sub>4</sub> <sup>-2</sup>	40

Anion Mix 5	
<b>IV-STOCK-64</b>	Matrix: H <sub>2</sub> O
<b>IV-STOCK-64-125ML</b> <b>IV-STOCK-64-500ML</b>	Volume: 125 mL Volume: 500 mL
Analyte	Range
Br <sup>-</sup>	50
Cl <sup>-</sup>	50
Fl <sup>-</sup>	25
NO <sub>3</sub> <sup>-</sup>	50
NO <sub>2</sub> <sup>-</sup>	50
PO <sub>4</sub> <sup>-3</sup>	50
SO <sub>4</sub> <sup>-2</sup>	50

## Eluent Concentrates

Custom eluent concentrates are available upon request.

0.18 M Sodium Carbonate/0.17 M Sodium Bicarbonate		
<b>ELUENT1817-100ML</b> <b>ELUENT1817-500ML</b>	Volume: 100 mL Volume: 500 mL	Matrix: H <sub>2</sub> O Dilution: 1:100
For preparation of 1.8 mM CO <sub>3</sub> <sup>-2</sup> / 1.7 mM HCO <sub>3</sub> <sup>-</sup> eluent.		

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

0.5 M Sodium Bicarbonate		
<b>BICARB-100ML</b> <b>BICARB-500ML</b>	Volume: 100 mL Volume: 500 mL	Matrix: H <sub>2</sub> O Dilution: 1:100
For preparation of various CO <sub>3</sub> <sup>-2</sup> / HCO <sub>3</sub> <sup>-</sup> eluents.		

0.5 M Sodium Carbonate		
<b>CARB-100ML</b> <b>CARB-500ML</b>	Volume: 100 mL Volume: 500 mL	Matrix: H <sub>2</sub> O Dilution: 1:100
For preparation of various CO <sub>3</sub> <sup>-2</sup> / HCO <sub>3</sub> <sup>-</sup> eluents.		

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

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: H <sub>2</sub> O
ELUENT1817-500ML	Volume: 500 mL	Dilution 1:100

For preparation of 1.8 mM CO<sub>3</sub><sup>2-</sup> / 1.7 mM HCO<sub>3</sub><sup>-</sup> eluent.

Calibration Standard			
300-CAL-A-125ML		Volume: 125 mL	Matrix: H <sub>2</sub> O
300-CAL-A-500ML		Volume: 500 mL	Dilution 1:10 to 1:100
Analyte	µg/mL	Analyte	µg/mL
Br <sup>-</sup>	100	Nitrite as Nitrogen	30
Cl <sup>-</sup>	30	Nitrate as Nitrogen	25
F <sup>-</sup>	20	Phosphate as Phosphorus	50
SO <sub>4</sub> <sup>-2</sup>	150		

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

For use as a surrogate analyte.

Laboratory Fortification Stock Standard			
300-LFS-A-125ML		Volume: 125 mL	Matrix: H <sub>2</sub> O
300-LFS-A-500ML		Volume: 500 mL	Dilution 1:100 to 1:1,000
Analyte	µg/mL	Analyte	µg/mL
Br <sup>-</sup>	1,000	Nitrite as Nitrogen	300
Cl <sup>-</sup>	300	Nitrate as Nitrogen	300
F <sup>-</sup>	200	Phosphate as Phosphorus	500
SO <sub>4</sub> <sup>-2</sup>	1,500		

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

QC Standard/Instrument Performance Check <sup>†</sup>			
QCP-QCS-5-125ML		Volume: 125 mL	Matrix: H <sub>2</sub> O
QCP-QCS-5-500ML		Volume: 500 mL	Dilution 1:10 to 1:100
Analyte	µg/mL	Analyte	µg/mL
Br <sup>-</sup>	50	Nitrite as Nitrogen	15
Cl <sup>-</sup>	15	Nitrate as Nitrogen	10
F <sup>-</sup>	10	Phosphate as Phosphorus	25
SO <sub>4</sub> <sup>-2</sup>	75		

<sup>†</sup>Manufactured from in-house Second Source concentrates.

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

**300.1 Part B** Custom EPA standards are available upon request.

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

Bromide	
ICBR1	Matrix: H <sub>2</sub> O
ICBR1-125ML ICBR1-500ML	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
Br <sup>-</sup>	1,000

Chlorite	
ICCL021	Matrix: H <sub>2</sub> O
ICCL021-125ML ICCL021-500ML	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
ClO <sub>2</sub> <sup>-</sup>	1,000

NOTE: Contains less than 10ppm ClO<sub>3</sub><sup>-</sup>.

Chlorate	
ICCL031	Matrix: H <sub>2</sub> O
ICCL031-125ML ICCL031-500ML	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
ClO <sub>3</sub> <sup>-</sup>	1,000

Dichloracetate Standard	
ICDCA-S	Matrix: H <sub>2</sub> O
ICDCA-S-125ML ICDCA-S-500ML	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
Cl <sub>2</sub> HC <sub>2</sub> O <sub>2</sub> <sup>-</sup>	500

For use as a surrogate analyte.

## Custom EPA standards are available upon request.

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

Perchlorate	
ICCL041	Matrix: H <sub>2</sub> O
ICCL041-125ML ICCL041-500ML	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
ClO <sub>4</sub> <sup>-</sup>	1,000





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1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Aluminum, Al	HNO <sub>3</sub>	125 mL	AAAL1-125ML
		500 mL	AAAL1-500ML
Antimony, Sb	HNO <sub>3</sub> / Tartaric Acid	125 mL	AASB1-125ML
		500 mL	AASB1-500ML
Arsenic, As	HNO <sub>3</sub>	125 mL	AAAS1-125ML
		500 mL	AAAS1-500ML
Barium, Ba	HNO <sub>3</sub>	125 mL	AABA1-125ML
		500 mL	AABA1-500ML
Beryllium, Be	HNO <sub>3</sub>	125 mL	AABE1-125ML
		500 mL	AABE1-500ML
Bismuth, Bi	HNO <sub>3</sub>	125 mL	AAB11-125ML
		500 mL	AAB11-500ML
Boron, B	NH <sub>4</sub> OH	125 mL	AAB1-125ML
		500 mL	AAB1-500ML
Cadmium, Cd	HNO <sub>3</sub>	125 mL	AACD1-125ML
		500 mL	AACD1-500ML
Calcium, Ca	HNO <sub>3</sub>	125 mL	AACA1-125ML
		500 mL	AACA1-500ML
Cerium, Ce	HNO <sub>3</sub>	125 mL	AACE1-125ML
		500 mL	AACE1-500ML
Cesium, Cs	HNO <sub>3</sub>	125 mL	AACS1-125ML
		500 mL	AACS1-500ML
Chromium, Cr	HNO <sub>3</sub>	125 mL	AACR1-125ML
		500 mL	AACR1-500ML
Cobalt, Co	HNO <sub>3</sub>	125 mL	AAC01-125ML
		500 mL	AAC01-500ML
Copper, Cu	HNO <sub>3</sub>	125 mL	AACU1-125ML
		500 mL	AACU1-500ML
Dysprosium, Dy	HNO <sub>3</sub>	125 mL	AADY1-125ML
		500 mL	AADY1-500ML
Erbium, Er	HNO <sub>3</sub>	125 mL	AAER1-125ML
		500 mL	AAER1-500ML
Europium, Eu	HNO <sub>3</sub>	125 mL	AAEU1-125ML
		500 mL	AAEU1-500ML
Gadolinium, Gd	HNO <sub>3</sub>	125 mL	AAGD1-125ML
		500 mL	AAGD1-500ML
Gallium, Ga	HNO <sub>3</sub>	125 mL	AAGA1-125ML
		500 mL	AAGA1-500ML
Germanium, Ge	HNO <sub>3</sub> / HF	125 mL	AAGE1-125ML
		500 mL	AAGE1-500ML
Gold, Au	HCl	125 mL	AAAU1-125ML
		500 mL	AAAU1-500ML
Hafnium, Hf	HNO <sub>3</sub> / HF	125 mL	AAHF1-125ML
		500 mL	AAHF1-500ML
Holmium, Ho	HNO <sub>3</sub>	125 mL	AAH01-125ML
		500 mL	AAH01-500ML
Indium, In	HNO <sub>3</sub>	125 mL	AAIN1-125ML
		500 mL	AAIN1-500ML

1,000 µg/mL Standards

1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Iridium, Ir	HCl	125 mL	AAIR1-125ML
		500 mL	AAIR1-500ML
Iron, Fe	HNO <sub>3</sub>	125 mL	AAFE1-125ML
		500 mL	AAFE1-500ML
Lanthanum, La	HNO <sub>3</sub>	125 mL	AALA1-125ML
		500 mL	AALA1-500ML
Lead, Pb	HNO <sub>3</sub>	125 mL	AAPB1-125ML
		500 mL	AAPB1-500ML
Lithium, Li	HNO <sub>3</sub>	125 mL	AALI1-125ML
		500 mL	AALI1-500ML
Lutetium, Lu	HNO <sub>3</sub>	125 mL	AALU1-125ML
		500 mL	AALU1-500ML
Magnesium, Mg	HNO <sub>3</sub>	125 mL	AAMG1-125ML
		500 mL	AAMG1-500ML
Manganese, Mn	HNO <sub>3</sub>	125 mL	AAMN1-125ML
		500 mL	AAMN1-500ML
Mercury, Hg	HNO <sub>3</sub>	125 mL	AAHG1-125ML
		500 mL	AAHG1-500ML
Molybdenum, Mo	NH <sub>4</sub> OH	125 mL	AAMO1-125ML
		500 mL	AAMO1-525ML
Neodymium, Nd	HNO <sub>3</sub>	125 mL	AAND1-125ML
		500 mL	AAND1-500ML
Nickel, Ni	HNO <sub>3</sub>	125 mL	AANI1-125ML
		500 mL	AANI1-500ML
Niobium, Nb	HNO <sub>3</sub> / HF	125 mL	AANB1-125ML
		500 mL	AANB1-500ML
Palladium, Pd	HCl	125 mL	AAPD1-125ML
		500 mL	AAPD1-500ML
Phosphorus, P	H <sub>2</sub> O	125 mL	AAP1-125ML
		500 mL	AAP1-500ML
Platinum, Pt	HCl	125 mL	AAPT1-125ML
		500 mL	AAPT1-500ML
Potassium, K	HNO <sub>3</sub>	125 mL	AAK1-125ML
		500 mL	AAK1-500ML
Praseodymium, Pr	HNO <sub>3</sub>	125 mL	AAPR1-125ML
		500 mL	AAPR1-500ML
Rhenium, Re	HNO <sub>3</sub>	125 mL	AARE1-125ML
		500 mL	AARE1-500ML
Rhodium, Rh	HCl	125 mL	AARH1-125ML
		500 mL	AARH1-500ML
Rubidium, Rb	HNO <sub>3</sub>	125 mL	AARB1-125ML
		500 mL	AARB1-500ML
Ruthenium, Ru	HCl	125 mL	AARU1-125ML
		500 mL	AARU1-500ML
Samarium, Sm	HNO <sub>3</sub>	125 mL	AASM1-125ML
		500 mL	AASM1-500ML
Scandium, Sc	HNO <sub>3</sub>	125 mL	AASC1-125ML
		500 mL	AASC1-500ML

1,000 µg/mL

ANALYTE	MATRIX	VOLUME	CATALOG #
Selenium, Se	HNO <sub>3</sub>	125 mL	AASE1-125ML
		500 mL	AASE1-500ML
Silicon, Si	HNO <sub>3</sub> / HF	125 mL	AAS11-125ML
		500 mL	AAS11-500ML
Silver, Ag	HNO <sub>3</sub>	125 mL	AAAG1-125ML
		500 mL	AAAG1-500ML
Sodium, Na	HNO <sub>3</sub>	125 mL	AANA1-125ML
		500 mL	AANA1-500ML
Strontium, Sr	HNO <sub>3</sub>	125 mL	AASR1-125ML
		500 mL	AASR1-500ML
Sulfur, S	H <sub>2</sub> O	125 mL	AAS1-125ML
		500 mL	AAS1-500ML
Tantalum, Ta	HNO <sub>3</sub> / HF	125 mL	AATA1-125ML
		500 mL	AATA1-500ML
Tellurium, Te	HCl	125 mL	AATE1-125ML
		500 mL	AATE1-500ML
Terbium, Tb	HNO <sub>3</sub>	125 mL	AATB1-125ML
		500 mL	AATB1-500ML
Thallium, Tl	HNO <sub>3</sub>	125 mL	AATL1-125ML
		500 mL	AATL1-500ML
Thorium, Th	HNO <sub>3</sub>	125 mL	AATH1-125ML
		500 mL	AATH1-500ML
Thulium, Tm	HNO <sub>3</sub>	125 mL	AATM1-125ML
		500 mL	AATM1-500ML
Tin, Sn	HNO <sub>3</sub> / HF	125 mL	AASN1-125ML
		500 mL	AASN1-500ML
Titanium, Ti	HNO <sub>3</sub> / HF	125 mL	AATI1-125ML
		500 mL	AATI1-500ML
Tungsten, W	HNO <sub>3</sub> / HF	125 mL	AAW1-125ML
		500 mL	AAW1-500ML
Uranium, U	HNO <sub>3</sub>	125 mL	AAU1-125ML
		500 mL	AAU1-500ML
Vanadium, V	HNO <sub>3</sub>	125 mL	AAV1-125ML
		500 mL	AAV1-500ML
Ytterbium, Yb	HNO <sub>3</sub>	125 mL	AAYB1-125ML
		500 mL	AAYB1-500ML
Yttrium, Y	HNO <sub>3</sub>	125 mL	AAAY1-125ML
		500 mL	AAAY1-500ML
Zinc, Zn	HNO <sub>3</sub>	125 mL	AAZN1-125ML
		500 mL	AAZN1-500ML
Zirconium, Zr	HF	125 mL	AAZR1-125ML
		500 mL	AAZR1-500ML

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

1% Lanthanum Releasing Agent	
<b>LACB1</b>	Matrix: HCl
<b>LACB1-125ML</b> <b>LACB1-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>La</b>	10,000

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

2% Lithium Ionization Buffer	
<b>LINB2</b>	Matrix: HNO <sub>3</sub>
<b>LINB2-125ML</b> <b>LINB2-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>Li</b>	20,000

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

1% Magnesium Nitrate Modifier	
<b>MM-MG-10</b>	Matrix: HNO <sub>3</sub>
<b>MM-MG-10-125ML</b> <b>MM-MG-10-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>Mg(NO<sub>3</sub>)<sub>2</sub></b>	10,000


0.3% Palladium / 0.2% Magnesium Nitrate Modifier			
<b>MM-PDMG-32</b>		Matrix: HNO <sub>3</sub>	
<b>MM-PDMG-32-125ML</b> <b>MM-PDMG-32-500ML</b>		Volume: 125 mL Volume: 500 mL	
<b>Analyte</b>	<b>µg/mL</b>	<b>Analyte</b>	<b>µg/mL</b>
<b>Mg(NO<sub>3</sub>)<sub>2</sub></b>	2,000	<b>Pd</b>	3,000

4% Phosphate Modifier	
<b>MM-P-40</b>	Matrix: H <sub>2</sub> O
<b>MM-P-40-125ML</b> <b>MM-P-40-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>PO<sub>4</sub></b>	40,000



## 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.

GFAA Calibration Standard			
IV-STOCK-18 		Matrix: HNO <sub>3</sub>	
IV-STOCK-18-125ML		Volume: 125 mL	
IV-STOCK-18-500ML		Volume: 500 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	Tl	100

 Merck/MilliporeSigma

### Toxicity Characteristic Leachate Procedure (TCLP)

Custom EPA standards are available upon request.

TCLP Hg Standard	
TCLP-AA-HG	Matrix: HNO <sub>3</sub> Dilution: As required
TCLP-AA-HG-125ML	Volume: 125 mL
TCLP-AA-HG-500ML	Volume: 500 mL
Analyte	µg/mL
Hg	20

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

## CLP Graphite Furnace Standards

Custom EPA standards are available upon request.

We can create any CLP Graphite Furnace Standard to best fit your needs.





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.

Our priority is your total satisfaction.

## Customer Satisfaction — The primary reason we flex to your specs.

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

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

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

Bromide	
<b>ICBR1</b>	Matrix: H <sub>2</sub> O
<b>ICBR1-125ML</b> <b>ICBR1-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>Br<sup>-</sup></b>	<b>1,000</b>

Cation Standard	
<b>QCP-CAT-20ML</b>	Volume: 20 mL Matrix: HNO <sub>3</sub> Dilution 1:100
<b>Analyte</b>	<b>Range</b>
<b>Ca<sup>+2</sup></b>	3.5–110 mg/L
<b>K<sup>+</sup></b>	4–40 mg/L
<b>Mg<sup>+2</sup></b>	2–40 mg/L
<b>Na<sup>+</sup></b>	6–100 mg/L

Chlorate	
<b>ICCLO31</b>	Matrix: H <sub>2</sub> O
<b>ICCLO31-125ML</b> <b>ICCLO31-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>ClO<sub>3</sub><sup>-</sup></b>	<b>1,000</b>

Chlorite	
<b>ICCLO21</b>	Matrix: H <sub>2</sub> O
<b>ICCLO21-125ML</b> <b>ICCLO21-500ML</b>	Volume: 125 mL Volume: 500 mL
<b>Analyte</b>	<b>µg/mL</b>
<b>ClO<sub>2</sub><sup>-</sup></b>	<b>1,000</b>

NOTE: Contains less than 10ppm ClO<sub>3</sub><sup>-</sup>.

Cyanide Standard	
<b>QCP-CN-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution 1:200
<b>Analyte</b>	<b>Range</b>
<b>Total Cyanide</b>	0.1–1 mg/L
<b>Free Cyanide</b>	0.05–0.5 mg/L
<b>Cyanide Amenable to Chlorination</b>	0.05–0.5 mg/L

Demand Standard	
<b>QCP-DMD-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution 1:200
<b>Analyte</b>	<b>Range</b>
<b>TOC</b>	6–100 mg/L
<b>COD</b>	30–250 mg/L
<b>CBOD</b>	15–250 mg/L
<b>BOD</b>	15–250 mg/L

Hg Standard	
<b>QCP-HG-20ML</b>	Volume: 20 mL Matrix: HNO <sub>3</sub> Dilution 1:200
<b>Analyte</b>	<b>Range*</b>
<b>Hg</b>	2–30 µg/L

Used in conjunction with QCP-TMS and QCP-MTL. \*Parts per billion



## POTABLE WATER STANDARDS

## Potable Water Standards

Water Hardness Standard	
<b>QCP-WH-500ML</b>	Volume: 500 mL Matrix: H <sub>2</sub> O Dilution: Ready to Use
Analyte	Range
<b>Ca</b>	8.7–275 mg/L
<b>Mg</b>	2.9–92 mg/L
<b>Hardness as CaCO<sub>3</sub></b>	17–440 mg/L

pH Standard	
<b>QCP-PH-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution: Ready to Use
Analyte	Range
<b>pH</b>	5–10 units

Metals Standard	
<b>QCP-MTL-20ML</b>	Volume: 20 mL Matrix: HNO <sub>3</sub> Dilution 1:200
Analyte	Range*
<b>Ag</b>	26–1,000 µg/L
<b>Al</b>	200–4,000 µg/L
<b>As</b>	70–900 µg/L
<b>Ba</b>	100–2,500 µg/L
<b>Be</b>	8–900 µg/L
<b>Ca</b>	3.5–110 mg/L
<b>Cd</b>	8–1,000 µg/L
<b>Cr</b>	17–1,000 µg/L
<b>Cu</b>	40–1,000 µg/L
<b>Fe</b>	200–4,000 µg/L
<b>Mn</b>	70–4,000 µg/L
<b>Ni</b>	80–3,000 µg/L
<b>Pb</b>	70–3,000 µg/L
<b>Sb</b>	90–900 µg/L
<b>Se</b>	90–2,000 µg/L
<b>Tl</b>	60–900 µg/L
<b>Zn</b>	100–2,000 µg/L

\*Parts per billion

Minerals Standard	
<b>QCP-MIN-500ML</b>	Volume: 500 mL Matrix: H <sub>2</sub> O Dilution: Ready to Use
Analyte	Range
<b>Cl<sup>-</sup></b>	35–275 mg/L
<b>F<sup>-</sup></b>	0.3–4 mg/L
<b>K<sup>+</sup></b>	4–40 mg/L
<b>Nitrate as Nitrogen</b>	0.25–40 mg/L
<b>Conductivity</b>	200–1,200 µmhos
<b>Alkalinity</b>	10–400 mg/L
<b>Na<sup>+</sup></b>	6–100 mg/L
<b>SO<sub>4</sub><sup>-2</sup></b>	5–125 mg/L

Nitrite Standard	
<b>QCP-NT-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution: 1:100
Analyte	Range
<b>Nitrite as Nitrogen</b>	0.4–4 mg/L

Simple Nutrients Standard	
<b>QCP-NUT-1-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution 1:200
Analyte	Range
<b>Phosphate as Phosphorus</b>	0.5–5.5 mg/L
<b>Nitrate plus Nitrite as Nitrogen</b>	0.25–40 mg/L
<b>Nitrate as Nitrogen</b>	0.25–40 mg/L
<b>Ammonium as Nitrogen</b>	0.65–20 mg/L

Simulated Rainwater Standard	
<b>QCP-RAIN-125ML</b>	Volume: 125 mL Matrix: H <sub>2</sub> O Dilution: Ready to Use
Analyte	Range
Ca <sup>+2</sup>	0.05–0.5 mg/L
Cl <sup>-</sup>	0.1–5 mg/L
F <sup>-</sup>	0.05–1 mg/L
K <sup>+</sup>	0.05–1 mg/L
Mg <sup>+2</sup>	0.05–0.5 mg/L
pH	3.5–4.5 units
Conductivity	20–120 µmhos
Na <sup>+</sup>	0.2–2 mg/L
NH <sub>4</sub> <sup>+</sup>	0.1–1.5 mg/L
NO <sub>3</sub> <sup>-</sup>	0.1–10 mg/L
SO <sub>4</sub> <sup>-2</sup>	1–12 mg/L

Total Residual Chlorine Standard	
<b>QCP-TRC-10ML</b>	Volume: 10 mL Matrix: H <sub>2</sub> O Dilution: 1:200
Analyte	Range
Total Residual Chlorine	0.5–3.0 mg/L

Turbidity Standard	
<b>QCP-TURB-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution: 1:100
Analyte	Range
Turbidity	2–30 NTU

Custom wastewater standards for certain products are available upon request.

Cation Standard	
<b>QCP-CAT-20ML</b>	Volume: 20 mL Matrix: HNO <sub>3</sub> Dilution 1:100
Analyte	Range
Ca <sup>+2</sup>	3.5–110 mg/L
K <sup>+</sup>	4–40 mg/L
Mg <sup>+2</sup>	2–40 mg/L
Na <sup>+</sup>	6–100 mg/L

Complex Nutrients Standard	
<b>QCP-NUT-2-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution 1:200
Analyte	Range
Total Organic Phosphorus as Phosphorus (P)	0.5–10 mg/L
Total Kjeldahl Nitrogen as Nitrogen (N)	1.5–35 mg/L

Chromium <sup>+6</sup> Standard	
<b>QCP-CR6-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution 1:100
Analyte	Range*
Cr <sup>+6</sup>	45–900 µg/L

Cyanide Standard	
<b>QCP-CN-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution 1:200
Analyte	Range
Total Cyanide	0.01–1 mg/L
Free Cyanide	0.05–0.5 mg/L
Cyanide Amenable to Chlorination	0.05–0.5 mg/L

\*Parts per billion

## WASTEWATER STANDARDS

## Wastewater Standards

Demand Standard	
<b>QCP-DMD-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution 1:200
Analyte	Range
<b>TOC</b>	6–100 mg/L
<b>COD</b>	30–250 mg/L
<b>CBOD</b>	15–250 mg/L
<b>BOD</b>	15–250 mg/L

Water Hardness Standard	
<b>QCP-WH-500ML</b>	Volume: 500 mL Matrix: HNO <sub>3</sub> Dilution: Certificate of Analysis
Analyte	Range
<b>Ca</b>	8.7–275 mg/L
<b>Mg</b>	2.9–92 mg/L
<b>Hardness as CaCO<sub>3</sub></b>	17–440 mg/L

Hg Standard	
<b>QCP-HG-20ML</b>	Volume: 20 mL Matrix: HNO <sub>3</sub> Dilution 1:200
Analyte	Range*
<b>Hg</b>	2–30 µg/L

Can be used in conjunction with QCP-TMS and QCP-MTL. \*Parts per billion.

Minerals Standard	
<b>QCP-MIN-500ML</b>	Volume: 500 mL Matrix: H <sub>2</sub> O Dilution: Ready to Use
Analyte	Range
<b>Cl<sup>-</sup></b>	35–275 mg/L
<b>F<sup>-</sup></b>	0.3–4 mg/L
<b>K<sup>+</sup></b>	4–40 mg/L
<b>Nitrate as Nitrogen</b>	0.25–40 mg/L
<b>Conductivity</b>	200–1,200 µmhos
<b>Alkalinity</b>	10–400 mg/L
<b>Na<sup>+</sup></b>	6–100 mg/L
<b>SO<sub>4</sub><sup>-2</sup></b>	5–125 mg/L

Oil & Grease Standard	
<b>QCP-OG-A-20ML</b>	Volume: 20 mL Matrix: Acetone Dilution 1:100
Analyte	Range
<b>Oil &amp; Grease</b>	20–200 mg/L

Applicable to gravimetric methods only.

Oil & Grease Standard	
<b>QCP-OG-W-250ML</b>	Volume: 250 mL Matrix: H <sub>2</sub> O Dilution: See Certificate of Analysis
Analyte	Range
<b>Oil &amp; Grease</b>	20–200 mg/L

pH Standard	
<b>QCP-PH-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution: Ready to Use
Analyte	Range
<b>pH</b>	5–10 units

Phenolics Standard	
<b>QCP-PHEN-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution 1:200
Analyte	Range
<b>Total Phenolics</b>	0.06–5 mg/L

Simple Nutrients Standard	
<b>QCP-NUT-1-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution 1:200
Analyte	Range
<b>Phosphate as Phosphorus</b>	0.5–5.5 mg/L
<b>Nitrate plus Nitrite as Nitrogen</b>	0.25–40 mg/L
<b>Nitrate as Nitrogen</b>	0.25–40 mg/L
<b>Ammonium as Nitrogen</b>	0.65–20 mg/L

Solids Standard	
<b>QCP-SLD-450ML</b>	Volume: 450 mL Matrix: H <sub>2</sub> O Dilution: Ready to Use
Analyte	Range
<b>Total Solids (total residue)</b>	140–800 mg/L
<b>Suspended Solids (nonfilterable residue)</b>	20–100 mg/L
<b>Dissolved Solids (filterable residue)</b>	140–800 mg/L

Total Residual Chlorine Standard	
<b>QCP-TRC-10ML</b>	Volume: 10 mL Matrix: H <sub>2</sub> O Dilution: 1:200
Analyte	Range
<b>Total Residual Chlorine</b>	0.5–3.0 mg/L

1,000 µg/mL Total Cyanide	
<b>CN-1000-25-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O
Analyte	µg/mL
<b>CN<sup>-</sup></b>	1,000

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

Trace Metals Standard	
<b>QCP-TMS-20ML</b>	Volume: 20 mL Matrix: HNO <sub>3</sub> Dilution 1:100
Analyte	Range*
<b>Ag</b>	26–1,000 µg/L
<b>Al</b>	200–4,000 µg/L
<b>As</b>	70–900 µg/L
<b>B</b>	800–2,000 µg/L
<b>Ba</b>	100–2,500 µg/L
<b>Be</b>	8–900 µg/L
<b>Cd</b>	8–1,000 µg/L
<b>Co</b>	28–1,000 µg/L
<b>Cr</b>	17–1,000 µg/L
<b>Cu</b>	40–1,000 µg/L
<b>Fe</b>	200–4,000 µg/L
<b>Mn</b>	70–4,000 µg/L
<b>Mo</b>	60–600 µg/L
<b>Ni</b>	80–3,000 µg/L
<b>Pb</b>	70–3,000 µg/L
<b>Sb</b>	90–900 µg/L
<b>Se</b>	90–2,000 µg/L
<b>Sr</b>	30–500 µg/L
<b>Tl</b>	60–900 µg/L
<b>V</b>	50–2,000 µg/L
<b>Zn</b>	100–2,000 µg/L

\*Parts per billion

Turbidity Standard	
<b>QCP-TURB-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O Dilution: 1:100
Analyte	Range
<b>Turbidity</b>	2–30 NTU

## TOTAL ORGANIC CARBON (TOC) STANDARDS

## TOC Standards

Custom wastewater standards are available upon request.

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Carbon, C	H <sub>2</sub> O	KHP	125 mL	TOCKHP1-125ML
			500 mL	TOCKHP1-500ML



Don't see  
exactly what  
you are  
looking for?

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





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, [inorganicventures.com](http://inorganicventures.com).

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

## Shared Knowledge —

The most rewarding part of how we flex to your specs.

Each pH standard is manufactured to be 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 engineered for homogeneity and long-term/short-term stability testing. Manufactured under our ISO 17025 and ISO 17034 accreditations and ISO 9001 registered, each pH standard comes with a CoA with a temperature chart for your convenience. Detailed error budgets provide accurate and consistent certified values and uncertainties. Each product is packaged in our TCT technology, where each lot has up to a three- to four-year shelf life and a one-year\* expiration date from opening. Also provided is a GHS-compliant SDS and GHS label and temperature chart on the product and TCT foil bag.

*\*For most products.*

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## Conductivity Standards

Custom conductivity standards are available upon request. |

2 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON2-25-125ML	Volume: 125 mL
CON2-25-500ML	Volume: 500 mL

5 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON5-25-125ML	Volume: 125 mL
CON5-25-500ML	Volume: 500 mL

10 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON10-25-125ML	Volume: 125 mL
CON10-25-500ML	Volume: 500 mL

84 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON84-25-125ML	Volume: 125 mL
CON84-25-500ML	Volume: 500 mL
CON84-25-1L	Volume: 1 L

100 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON100-25-125ML	Volume: 125 mL
CON100-25-500ML	Volume: 500 mL
CON100-25-1L	Volume: 1 L

147 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON147-25-125ML	Volume: 125 mL
CON147-25-500ML	Volume: 500 mL
CON147-25-1L	Volume: 1 L

500 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON500-25-125ML	Volume: 125 mL
CON500-25-500ML	Volume: 500 mL
CON500-25-1L	Volume: 1 L

1,000 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON1000-25-125ML	Volume: 125 mL
CON1000-25-500ML	Volume: 500 mL
CON1000-25-1L	Volume: 1 L

1,200 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON1200-25-125ML	Volume: 125 mL
CON1200-25-500ML	Volume: 500 mL
CON1200-25-1L	Volume: 1 L

1,400 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON1400-25-125ML	Volume: 125 mL
CON1400-25-500ML	Volume: 500 mL
CON1400-25-1L	Volume: 1 L

1,413 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON1413-25-125ML	Volume: 125 mL
CON1413-25-500ML	Volume: 500 mL
CON1413-25-1L	Volume: 1 L

1,430 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON1430-25-125ML	Volume: 125 mL
CON1430-25-500ML	Volume: 500 mL
CON1430-25-1L	Volume: 1 L

10,000 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON10000-25-125ML	Volume: 125 mL
CON10000-25-500ML	Volume: 500 mL
CON10000-25-1L	Volume: 1 L

100,000 $\mu\text{mhos/cm}$ Conductivity at 25°C	
Matrix: H <sub>2</sub> O	
CON100000-25-125ML	Volume: 125 mL
CON100000-25-500ML	Volume: 500 mL
CON100000-25-1L	Volume: 1 L

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-1.68-10L	Volume: 10 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-5-10L	Volume: 10 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



## pH Standards

## pH 8

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

## pH 9

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

## pH 9.18

pH 9.18	
Sodium borate decahydrate	
<b>PH-9.18-250ML</b>	Volume: 250 mL
<b>PH-9.18-500ML</b>	Volume: 500 mL
<b>PH-9.18-1L</b>	Volume: 1 L
<b>PH-9.18-4L</b>	Volume: 4 L
<b>PH-9.18-10L</b>	Volume: 10 L

## pH 10

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

## pH 10 BLUE

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

## pH 11

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

## pH 12

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

## pH 12.47

pH 12.47	
Sodium hydroxide and potassium chloride	
<b>PH-12.47-250ML</b>	Volume: 250 mL
<b>PH-12.47-500ML</b>	Volume: 500 mL
<b>PH-12.47-1L</b>	Volume: 1 L
<b>PH-12.47-4L</b>	Volume: 4 L
<b>PH-12.47-10L</b>	Volume: 10 L

## Cyanide Standards

Custom cyanide standards are available upon request.

## 1,000 ug/mL Total Cyanide

1,000 ug/mL Total Cyanide	
<b>CN-1000-25-20ML</b>	Volume: 20 mL Matrix: H <sub>2</sub> O
<b>Analyte</b>	<b>µg/mL</b>
<b>CN<sup>-</sup></b>	1,000

## Dissolution Reagents

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. The dissolution of these types of materials requires HF. See the article titled *Elemental Analysis of Zeolites* on our website for more information.

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

Acid Dissolution Reagent <sup>†</sup>	
<b>UA-2-500ML</b>	Volume: 500 mL
Designed to dissolve coal fly ash and aluminosilicates.	

Acid Dissolution Reagent*	
<b>UA-3-500ML</b>	Volume: 500 mL
Similar to UA-2, except UA-3 can handle higher levels of iron.	

Acid Dissolution Reagent	
<b>UA-4-500ML</b>	Volume: 500 mL
Designed for the dissolution of aluminosilicates, such as zeolites, containing moderate to high levels of fluoride-insoluble elements.	

Acid Dissolution Reagent	
<b>UA-5-500ML</b>	Volume: 500 mL
Designed to handle samples high in calcium, such as limestone.	

Acid Dissolution Reagent	
<b>UA-6-500ML</b>	Volume: 500 mL
Designed for samples high in magnesium, such as dolomite.	

Acid Dissolution Reagent	
<b>UA-7-500ML</b>	Volume: 500 mL
Designed for the determination of trace elements in samples containing predominately silica, such as silica gel.	

<sup>†</sup>Boron cannot be determined.

\*Boron and Phosphorus cannot be determined.

## Don't see exactly what you are looking for?

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



Neutralizers & Stabilizers

These products are applicable to the determination of aluminosilicates containing various elements. For details, refer to the description for Dissolution Reagents on the preceding page.

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

Stabilizing Reagent	
<b>UNS-2-SET</b>	Volume: 2.5 L
Two reagent set consisting of equal amounts of UNS-2A and UNS-2B. Recommended for use with UA-2, UA-3, UA-4, or UA-5.	

Stabilizing Reagent	
<b>UNS-2A-2.5L</b>	Volume: 2.5 L
Stabilizing Agent	

Stabilizing Reagent	
<b>UNS-2B-2.5L</b>	Volume: 2.5 L
Stabilizing Agent	

Stabilizing Reagent	
<b>UNS-3-2.5L</b>	Volume: 2.5 L
Designed for use with UA-7.	

Stabilizing Reagent	
<b>UNS-4-2.5L</b>	Volume: 2.5 L
Prevents salting-out effects from borate fusions and/or boric acid treated HF preparations. Also recommended for use with UA-6.	

Stabilizing Reagent	
<b>UNS-100-500ML</b>	Volume: 500 mL
<b>UNS-100-2.5L</b>	Volume: 2.5 L
For use with all acids and applications. Improved capacity. Contact us for more information.	

Stabilizing Reagent	
<b>UNS-300-2.5L</b>	Volume: 2.5 L
For use with all acids and applications. Improved capacity. Contact us for more information.	

Fusion Fluxes

Lithium Carbonate	
<b>FF-LI2CO3-500G</b>	Volume: 500 g
<b>FF-LI2CO3-2.5KG</b>	Volume: 2.5 Kg
See section 13 of the Reliable Measurements Guide found on our website for a sample preparation method designed to work perfectly with this product.	

## CERTIFIED TITRANTS AND REAGENTS

## Certified Titrants

These Certified Titrants for Standardized Acid and Base are ISO 17034 and ISO 17025 as well as traceable to NIST. Basic stock sizes and customs are available.

0.05M EDTA	
<b>0.05M-EDTA-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
0.05M EDTA, 500mL	

0.5M EDTA	
<b>0.5M-EDTA-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
0.5M EDTA, 500mL	

0.1M Hydrochloric Acid	
<b>0.1M-HCL-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
0.1M Hydrochloric Acid, 500mL	

1.0M Hydrochloric Acid	
<b>1.0M-HCL-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
1.0M Hydrochloric Acid, 500mL	

0.1M Nitric Acid	
<b>0.1M-HNO3-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
0.1M Nitric Acid, 500mL	

1.0M Nitric Acid	
<b>1.0M-HNO3-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
1.0M Nitric Acid, 500mL	

0.1M Perchloric Acid	
<b>0.1M-HCLO4-500ML</b>	Matrix: H <sub>2</sub> O/0.1M HClO <sub>4</sub> in Glacial Acetic Acid Volume: 500 mL
0.1M Perchloric Acid, 500mL	

0.1N Silver Nitrate	
<b>0.1N-AGNO3-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
0.1N Silver Nitrate, 500mL	

0.1M Sodium Hydroxide	
<b>0.1M-NAOH-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
0.1M Sodium Hydroxide, 500mL	

0.1N Sodium Thiosulfate	
<b>0.1N-NA2S2O3-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
0.1N Sodium Thiosulfate 500 mL. Prepared and standardized according to USP specifications.	

0.1M Sodium Hydroxide	
<b>0.1M-NAOH-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
0.1M Sodium Hydroxide, 500mL	

1M Sodium Hydroxide	
<b>1M-NOAH-500ML</b>	Matrix: H <sub>2</sub> O Volume: 500 mL
1M Sodium Hydroxide, 500mL	

### Blank & Rinse Solutions

Blank & Rinse solutions are prepared using double-distilled reagents and 18 megohm (MΩ) 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	
<b>CLP-MS-RINSE</b> Ultra Pure	Matrix: HNO <sub>3</sub> Dilution: Ready to Use
<b>CLP-MS-RINSE-125ML</b> <b>CLP-MS-RINSE-500ML</b>	Volume: 125 mL Volume: 500 mL

Deionized Blank	
<b>IV-DI-BLANK</b>	Matrix: H <sub>2</sub> O
<b>IV-DI-BLANK-500ML</b> <b>IV-DI-BLANK-1L</b>	Volume: 500 mL Volume: 1 L

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

5% (v/v) Nitric Acid Blank	
<b>IV-ACID-BLANK</b> Ultra Pure	Matrix: HNO <sub>3</sub>
<b>IV-ACID-BLANK-500ML</b> <b>IV-ACID-BLANK-1L</b>	Volume: 500 mL Volume: 1 L

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6020ICS-9B-125ML.....	70	AAHF1-500ML.....	82	AASN1-500ML.....	84	CGAL10-500ML.....	25	CGCA1-30ML.....	19
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**Customer Service**

Representatives are available Monday through Friday, between 7:00 a.m. and 6:00 p.m. EST.

Phone: 800.669.6799 (US & Canada)  
+1.540.585.3030 (International)

Fax: 540.585.3012

Email: [info@inorganicventures.com](mailto:info@inorganicventures.com)

Online: [inorganicventures.com](http://inorganicventures.com)

**Export Orders**

We have representation in countries across the globe. Contact your distributor for regional pricing, orders and additional catalogs. Visit our website to find the distributor in your area.

**Our Guarantee**

As stated in our Declaration of Integrity (see pg. 7), if you're dissatisfied with your order for any reason, we'll resolve the situation in whatever way works best for you:

- A full refund;
- Complimentary technical services; or
- A replacement item rushed to you at no cost.\*

**Returns, Exchanges and Damaged Goods**

Situations not covered under the terms of our guarantee (above) may require a return and/or exchange of the product. Refunds, replacements and exchanges are considered at management's discretion. Items will only be accepted for return with a valid return authorization number. Contact us to receive this number.

All transportation and packaging expenses on returned or exchanged items are assumed by the customer. Credit for returned items is subject to a modest 15% restocking charge. Credit will not be issued until it is determined by our inspection that returned items are unused and undamaged. All returned items must be received within 60 days of the original invoice date.

If carton is received in a conspicuously damaged condition, alert carrier and refuse acceptance.







INORGANIC CUSTOM & STOCK CERTIFIED REFERENCE MATERIALS



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info@inorganicventures.com | inorganicventures.com

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