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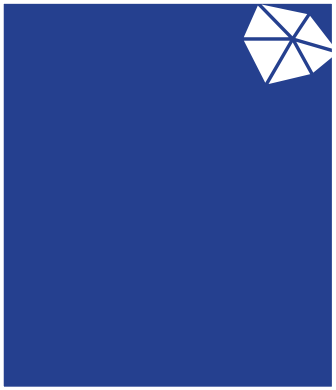
ICP-OES & MS Standards





About Us

AnalytiChem manufactures an extensive portfolio of specialized reference materials, culture media, laboratory consumables, and sample preparation equipment and operates with a focus on providing the right solutions to ensure our customers obtain the best results with the highest competitive quality.

Formed in 2021 through the combination of industry leaders, we utilize the expertise of our group companies to provide an integrated value proposition for our customers who operate in the material science, environmental, petroleum, animal health and chemical industries.

Leveraging our global operational hubs in North America, Europe, and Australia and our ISO 17034, ISO/IEC 17025, and ISO 9001 certifications, we **Enable The Science** that our customers do to improve operational efficiency, safeguard the environment, and support the global infrastructure.

Products are intended for laboratory use only. Specifications, concentrations, and availability may change without notice. Refer to the SDS and CoA for safety, handling, and certification details. ISO accreditations apply only where stated. Hazardous materials are shipped according to applicable transportation regulations. Product descriptions provided in this catalog are intended solely for commercial and informational purposes. Actual product specifications, concentrations, and labeling details may vary. In all cases, the information displayed on the product label and certificate of analysis (CoA) shall be considered the authoritative and most current version.

Product offering may vary by region. Please contact your local representative for more information.

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Abbreviations And Symbols Used In This Catalog

Legend

Icons are used to enhance visual clarity, reduce clutter, and allow for quick, intuitive recognition of categories.

Table's Header pictograms

	Description of the chemical standard
[▦]	Matrix – The solution base or solvent used
	Compliance status with relevant ISO standards
	* Functional categories (Multi-Element Standards)
	Volume or quantity supplied
	Legacy Item Number
	Current product identification code
	Count of elements included in the standard
	Specific element(s) present in the solution
	Composition
[ppm]	Element concentration level in the matrix

Table's Body pictograms

▲	Analytical Standard
✦	ISO 17025
★	ISO 17034
⊹	Calibration & Verification Standards
☑	Quality Control & Performance Check Standards
⇱	Instrument Performance & Tuning Solutions
≔	Regulatory Methods
≋	Environmental Water Standards
⤮	Internal & Interference Correction Standard

** AnalytiChem organizes multi-element products into six functional categories. These categories are based on common applications and industry practices, allowing users to quickly find the solutions most relevant to their methods or analytical objectives.*
See page 65.

Introduction

Choosing the right calibration standard begins with understanding the breadth of options available.

With a portfolio that spans multiple pack sizes, matrix compositions, and concentration ranges, we offer one of the most comprehensive selections of ICP-OES and ICP-MS single-element standards on the market. To help laboratories navigate this choice with clarity and confidence, our standards are presented in a simple and intuitive structure organized by concentration tiers. Each tier is designed to support a specific analytical purpose, making it easier to identify the most appropriate solution for your method, instrument, and detection requirements.

Across the full concentration range—10, 100, 1,000, 10,000, and 50,000 µg/mL, our ultra-high-purity single-element standards maintain the same rigorous specifications for quality, traceability, and matrix control. What changes is their role in the analytical workflow:

10 µg/mL	100 µg/mL	1,000 µg/mL	10,000 µg/mL	50,000 µg/mL
For Ultra-Trace ICP-MS Calibration And Low-Background Analysis	For Routine ICP-OES And ICP-MS Calibration	As The Universal General-Purpose Stock Standard	For High-Volume Labs And Matrix-Matched Preparations	For Large Dilution Batches And Custom High-Strength Blends

This structured approach ensures that even with an extensive catalogue of products and specifications, selecting the right standard remains straightforward and efficient.

Our commitment to reliability goes beyond portfolio breadth. With three globally distributed production sites accredited to ISO 9001, ISO/IEC 17025, and ISO 17034, and with decades of expertise in manufacturing elemental reference materials, our facilities hold accreditations from ANAB, BELAC, and DAkkS—ensuring full compliance, traceability, and consistency across our entire product range. Should your application require something not included in this catalogue, our team provides strong custom formulation capabilities, delivering tailored concentrations, matrices, and blends.

We also understand the importance of supply security. That is why we can guarantee second-source assurance, whether through distinct lot numbers or through the flexibility provided by multiple production sites. Wherever your laboratory operates, we ensure consistent quality, continuous availability, and confidence in every standard you receive.

Best Practice For Use, Handling & Storage Recommendations

Before opening, shake the bottle gently to homogenize the solution. Always pour out only the required quantity, never return any unused portion to the original container, as this may compromise the concentration and traceability of the standard. For accurate pipetting, withdraw at least 1 mL per use to minimize measurement error and ensure reproducibility.

Store the certified reference material (CRM) in its tightly closed, original container at a stable temperature between 15 °C and 25 °C. The certified mass fraction remains valid only for the unopened bottle and its first use under proper storage conditions. Following these guidelines will help preserve the accuracy and stability of your ICP standard for its entire certified shelf life.

Single Element ICP-OES / ICP-MS



Single-Element Calibration Standards - 10 µg/mL

Ultra-Trace Precision for ICP-MS

When maximum sensitivity matters!

Low level standards at 10 µg/mL are engineered for laboratories performing ultra trace analysis, particularly with ICP MS systems where detection limits reach the sub ppb or ppt range.

These standards minimize dilution errors and background contamination, functioning as ideal calibration points for the lowest levels of quantification.

Why choose 10 µg/mL?

- Essential for ultra trace workflows in environmental, semiconductor, clinical, and high purity applications
- Reduces dilution uncertainty, improving calibration accuracy
- Minimizes matrix contamination, especially important in ICP MS
- Ideal for low-level internal standards

Single-Element Calibration Standards - 10 µg/mL

Aluminium, Al	2 to 5% HNO_3	100 mL	AC18.00801.0100	CL01.0101.010.0100	✦
		500 mL	AC18.00801.0500	CL01.0101.010.0500	
Antimony, Sb	10 to 20% HCl	100 mL	AC18.00811.0100	CL01.0121.010.0100	✦
		500 mL	AC18.00811.0500	CL01.0121.010.0500	
Arsenic, As	2 to 5% HNO_3	100 mL	AC18.00821.0100	CL01.0133.010.0100	✦
		500 mL	AC18.00821.0500	CL01.0133.010.0500	
Barium, Ba	2 to 5% HNO_3	100 mL	AC18.00831.0100	CL01.0201.010.0100	✦
		500 mL	AC18.00831.0500	CL01.0201.010.0500	
Beryllium, Be	2 to 5% HNO_3	100 mL	AC18.00840.0100	CL01.0212.010.0100	✦
		500 mL	AC18.00840.0500	CL01.0212.010.0500	
Bismuth, Bi	2 to 5% HNO_3	100 mL	AC18.00845.0100	CL01.0221.010.0100	✦
		500 mL	AC18.00845.0500	CL01.0221.010.0500	
Boron, B	H_2O	100 mL	AC18.00851.0100	CL01.0231.010.0100	✦
		500 mL	AC18.00851.0500	CL01.0231.010.0500	

Single-Element Calibration Standards - 10 µg/mL					
Cadmium, Cd	2 to 5% HNO_3	100 mL	AC18.00859.0100	CL01.0301.010.0100	✦
		500 mL	AC18.00859.0500	CL01.0301.010.0500	
Caesium, Cs	2 to 5% HNO_3	100 mL	AC18.00878.0100	CL01.0331.010.0100	✦
		500 mL	AC18.00878.0500	CL01.0331.010.0500	
Calcium, Ca	2 to 5% HNO_3	100 mL	AC18.00865.0100	CL01.0311.010.0100	✦
		500 mL	AC18.00865.0500	CL01.0311.010.0500	
Cerium, Ce	2 to 5% HNO_3	100 mL	AC18.00874.0100	CL01.0321.010.0100	✦
		500 mL	AC18.00874.0500	CL01.0321.010.0500	
Chromium, Cr	2 to 5% HNO_3	100 mL	AC18.00886.0100	CL01.0362.010.0100	✦
		500 mL	AC18.00886.0500	CL01.0362.010.0500	
Cobalt, Co	2 to 5% HNO_3	100 mL	AC18.00964.0100	CL01.1121.010.0100	✦
		500 mL	AC18.00964.0500	CL01.1121.010.0500	
Copper, Cu	1% HNO_3	100 mL	AC18.00973.0100	CL01.1131.010.0100	✦
		500 mL	AC18.00973.0500	CL01.1131.010.0500	
Dysprosium, Dy	2 to 5% HNO_3	100 mL	AC18.19722.0100	CL01.0431.010.0100	✦
		500 mL	AC18.19722.0500	CL01.0431.010.0500	
Erbium, Er	2 to 5% HNO_3	100 mL	AC18.19724.0100	CL01.0501.010.0100	✦
		500 mL	AC18.19724.0500	CL01.0501.010.0500	
Europium, Eu	2 to 5% HNO_3	100 mL	AC18.19726.0100	CL01.0511.010.0100	✦
		500 mL	AC18.19726.0500	CL01.0511.010.0500	
Gadolinium, Gd	2 to 5% HNO_3	100 mL	AC18.00913.0100	CL01.0701.010.0100	✦
		500 mL	AC18.00913.0500	CL01.0701.010.0500	
Gallium, Ga	2 to 5% HNO_3	100 mL	AC18.00916.0100	CL01.0711.010.0100	✦
		500 mL	AC18.00916.0500	CL01.0711.010.0500	
Germanium, Ge	2% KOH	100 mL	AC18.00918.0100	CL01.0721.010.0100	✦
		500 mL	AC18.00918.0500	CL01.0721.010.0500	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.19770.0100	CL01.0741.010.0100	✦
		500 mL	AC18.19770.0500	CL01.0741.010.0500	
Gold, Au	10 to 20% HCl	100 mL	AC18.00920.0100	CL01.0731.010.0100	✦
		500 mL	AC18.00920.0500	CL01.0731.010.0500	

ISO 17034

ISO 17025

Analytical Standard

Calibration & Verification Standards

Quality Control & Performance Check Standards

Instrument Performance & Tuning Solutions

Regulatory Methods

Environmental Water Standards

Internal & Interference Correction Standard

Description of the chemical standard

Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

Element concentration level in the matrix

ISO 17034

ISO 17025

Analytical Standard

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Specific element(s) present in the solution

Composition

Element concentration level in the matrix

Single-Element Calibration Standards - 10 µg/mL

	[ ]				
Hafnium, Hf	2 to 5% HCl	100 mL	AC18.00927.0100	CL01.0802.010.0100	✦
		500 mL	AC18.00927.0500	CL01.0802.010.0500	
	5% HF	100 mL	AC18.19774.0100	CL01.0801.010.0100	✦
		500 mL	AC18.19774.0500	CL01.0801.010.0500	
Holmium, Ho	2 to 5% HNO_3	100 mL	AC18.00931.0100	CL01.0821.010.0100	✦
		500 mL	AC18.00931.0500	CL01.0821.010.0500	
Indium, In	2 to 5% HNO_3	100 mL	AC18.00946.0100	CL01.0921.010.0100	✦
		500 mL	AC18.00946.0500	CL01.0921.010.0500	
Iridium, Ir	10 to 20% HCl	100 mL	AC18.13687.0100	CL01.0931.010.0100	✦
		500 mL	AC18.13687.0500	CL01.0931.010.0500	
Iron, Fe	5% HNO_3	125 mL	AC18.06437.0125	140-128-026	★
	2 to 5% HNO_3	100 mL	AC18.00935.0100	CL01.0901.010.0100	✦
		500 mL	AC18.00935.0500	CL01.0901.010.0500	
Lanthanum, La	2 to 5% HNO_3	100 mL	AC18.19831.0100	CL01.1201.010.0100	✦
		500 mL	AC18.19831.0500	CL01.1201.010.0500	
Lead, Pb	2 to 5% HNO_3	100 mL	AC18.01000.0100	CL01.1221.010.0100	✦
		500 mL	AC18.01000.0500	CL01.1221.010.0500	
Lithium, Li	2 to 5% HNO_3	100 mL	AC18.00994.0100	CL01.1212.010.0100	✦
		500 mL	AC18.00994.0500	CL01.1212.010.0500	
Lutetium, Lu	2 to 5% HNO_3	100 mL	AC18.01006.0100	CL01.1231.010.0100	✦
		500 mL	AC18.01006.0500	CL01.1231.010.0500	
Magnesium, Mg	2 to 5% HNO_3	100 mL	AC18.01009.0100	CL01.1301.010.0100	✦
		500 mL	AC18.01009.0500	CL01.1301.010.0500	
Manganese, Mn	2 to 5% HNO_3	100 mL	AC18.01017.0100	CL01.1311.010.0100	✦
		500 mL	AC18.01017.0500	CL01.1311.010.0500	
Mercury, Hg	10% HNO_3	100 mL	AC18.00983.0100	CL01.1151.010.0100	✦
		500 mL	AC18.00983.0500	CL01.1151.010.0500	
	10% HNO_3	(2x25 mL)	AC18.06689.0025	141-110-110	★
	10% HNO_3	125 mL	AC18.06689.0100	141-110-111	
		250 mL	AC18.06689.0250	141-110-112	
		500 mL	AC18.06689.0500	141-110-115	

Single-Element Calibration Standards - 10 µg/mL					
Mercury, Hg Available at 20	2% HNO_3	125 mL	AC18.06193.0125	140-112-041	★
		250 mL	AC18.06193.0250	140-112-042	
		500 mL	AC18.06193.0500	140-112-045	
Mercury, Hg Available at 20	5% HNO_3	100 mL	AC18.01033.0100	CL01.13773.0100	✦
		500 mL	AC18.01033.0500	CL01.13773.0500	
Molybdenum, Mo Available at 20	2% HNO_3 + traces HF	100 mL	AC18.20340.0100	CL01.13761.0100	✦
	2% HNO_3 + traces HF	500 mL	AC18.20340.0500	CL01.13761.0500	
Molybdenum, Mo	2 to 5% HNO_3 + traces HF	100 mL	AC18.01025.0100	CL01.1331.010.0100	✦
		500 mL	AC18.01025.0500	CL01.1331.010.0500	
Neodymium, Nd	2 to 5% HNO_3	100 mL	AC18.20389.0100	CL01.1411.010.0100	✦
		500 mL	AC18.20389.0500	CL01.1411.010.0500	
Nickel, Ni	2 to 5% HNO_3	100 mL	AC18.01047.0100	CL01.1421.010.0100	✦
		500 mL	AC18.01047.0500	CL01.1421.010.0500	
Niobium, Nb	5% HF	100 mL	AC18.20393.0100	CL01.1431.010.0100	✦
		500 mL	AC18.20393.0500	CL01.1431.010.0500	
Osmium, Os	2 to 5% HCl	100 mL	AC18.01060.0100	CL01.1501.010.0100	✦
		500 mL	AC18.01060.0500	CL01.1501.010.0500	
Palladium, Pd	2 to 5% HNO_3	100 mL	AC18.01064.0100	CL01.1602.010.0100	✦
		500 mL	AC18.01064.0500	CL01.1602.010.0500	
Phosphorus, P	2 to 5% HNO_3	100 mL	AC18.03058.0100	CL01.0641.010.0100	✦
		500 mL	AC18.03058.0500	CL01.0641.010.0500	
Platinum, Pt	10 to 20% HCl	100 mL	AC18.01068.0100	CL01.1611.010.0100	✦
		500 mL	AC18.01068.0500	CL01.1611.010.0500	
Potassium, K	2 to 5% HNO_3	100 mL	AC18.00955.0100	CL01.1101.010.0100	✦
		500 mL	AC18.00955.0500	CL01.1101.010.0500	
Praseodymium, Pr	2 to 5% HNO_3	100 mL	AC18.20428.0100	CL01.1621.010.0100	✦
		500 mL	AC18.20428.0500	CL01.1621.010.0500	
Rhenium, Re	2 to 5% HNO_3	100 mL	AC18.01075.0100	CL01.1802.010.0100	✦
		500 mL	AC18.01075.0500	CL01.1802.010.0500	
Rhodium, Rh	10 to 20% HCl	100 mL	AC18.01078.0100	CL01.1811.010.0100	✦
		500 mL	AC18.01078.0500	CL01.1811.010.0500	

Single-Element Calibration Standards - 10 µg/mL					
Rubidium, Rb	2 to 5% HNO_3	100 mL	AC18.14533.0100	CL01.1822.010.0100	✦
		500 mL	AC18.14533.0500	CL01.1822.010.0500	
Ruthenium, Ru	5% HCl	100 mL	AC18.01083.0100	CL01.1831.010.0100	✦
		500 mL	AC18.01083.0500	CL01.1831.010.0500	
Samarium, Sm	2 to 5% HNO_3	100 mL	AC18.20433.0100	CL01.1901.010.0100	✦
		500 mL	AC18.20433.0500	CL01.1901.010.0500	
Scandium, Sc	2 to 5% HNO_3	100 mL	AC18.01088.0100	CL01.1911.010.0100	✦
		500 mL	AC18.01088.0500	CL01.1911.010.0500	
Selenium, Se	2 to 5% HNO_3	100 mL	AC18.01093.0100	CL01.1922.010.0100	✦
		500 mL	AC18.01093.0500	CL01.1922.010.0500	
Silicon, Si	2 to 5% HNO_3 + traces HF	100 mL	AC18.01101.0100	CL01.1932.010.0100	✦
		500 mL	AC18.01101.0500	CL01.1932.010.0500	
Silver, Ag	10% HNO_3	100 mL	AC18.01185.0100	CL01.2601.010.0100	✦
		500 mL	AC18.01185.0500	CL01.2601.010.0500	
Sodium, Na	1% HNO_3	100 mL	AC18.01035.0100	CL01.1401.010.0100	✦
		500 mL	AC18.01035.0500	CL01.1401.010.0500	
Sulfur, S	H_2O	100 mL	AC18.01209.0100	CL01.2642.010.0100	✦
		500 mL	AC18.01209.0500	CL01.2642.010.0500	
Tantalum, Ta	2 to 5% HNO_3 + traces HF	100 mL	AC18.20488.0100	CL01.2002.010.0100	✦
		500 mL	AC18.20488.0500	CL01.2002.010.0500	
Tellurium, Te	2 to 5% HNO_3 + traces HF	100 mL	AC18.01122.0100	CL01.2013.010.0100	✦
		500 mL	AC18.01122.0500	CL01.2013.010.0500	
Terbium, Tb	2 to 5% HNO_3	100 mL	AC18.01129.0100	CL01.2022.010.0100	✦
		500 mL	AC18.01129.0500	CL01.2022.010.0500	
Thallium, Tl	2 to 5% HNO_3	100 mL	AC18.01132.0100	CL01.2031.010.0100	✦
		500 mL	AC18.01132.0500	CL01.2031.010.0500	
Thorium, Th	10% HNO_3	100 mL	AC18.01137.0100	CL01.2041.010.0100	✦
Thulium, Tm	2 to 5% HNO_3	100 mL	AC18.01141.0100	CL01.2051.010.0100	✦
		500 mL	AC18.01141.0500	CL01.2051.010.0500	
Tin, Sn	1% HF and 2% HNO_3	100 mL	AC18.01145.0100	CL01.2062.010.0100	✦
		500 mL	AC18.01145.0500	CL01.2062.010.0500	

Single-Element Calibration Standards - 10 µg/mL					
	[matrix]				
Titanium, Ti	2 to 5% HNO_3	100 mL	AC18.01154.0100	CL01.2075.010.0100	✦
		500 mL	AC18.01154.0500	CL01.2075.010.0500	
Tungsten, W	5% HF	100 mL	AC18.01170.0100	CL01.2301.010.0100	✦
		500 mL	AC18.01170.0500	CL01.2301.010.0500	
Vanadium, V	2 to 5% HNO_3	100 mL	AC18.01163.0100	CL01.2201.010.0100	✦
		500 mL	AC18.01163.0500	CL01.2201.010.0500	
Ytterbium, Yb	2 to 5% HNO_3	100 mL	AC18.20528.0100	CL01.2501.010.0100	✦
		500 mL	AC18.20528.0500	CL01.2501.010.0500	
Yttrium, Y	2 to 5% HNO_3	100 mL	AC18.01181.0100	CL01.2511.010.0100	✦
		500 mL	AC18.01181.0500	CL01.2511.010.0500	
Zinc, Zn	2 to 5% HNO_3	100 mL	AC18.01192.0100	CL01.2611.010.0100	✦
		500 mL	AC18.01192.0500	CL01.2611.010.0500	
Zirconium, Zr	2 to 5% HNO_3 + traces HF	100 mL	AC18.01217.0100	CL01.2672.010.0100	✦
		500 mL	AC18.01217.0500	CL01.2672.010.0500	

ISO 17034

ISO 17025

Analytical Standard

Calibration & Verification Standards

Quality Control & Performance Check Standards

Instrument Performance & Tuning Solutions

Regulatory Methods

Environmental Water Standards

Internal & Interference Correction Standard

Description of the chemical standard

Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

Element concentration level in the matrix

Single-Element Calibration Standards - 100 µg/mL

The everyday workhorse concentration

Standards at 100 µg/mL strike the perfect balance between sensitivity and practicality. They are highly versatile and widely used in routine multi technique laboratories running both ICP OES and ICP MS. This concentration provides excellent stability and is well suited for constructing calibration curves across a broad dynamic range.

Why choose 100 µg/mL?

- Ideal for routine calibration across both ICP OES and ICP MS
- Lower risk of contamination compared with high concentration stocks
- Convenient mid range concentration limits excessive dilution
- Suitable for labs handling both trace and mid range concentrations

Single-Element Calibration Standards - 100 µg/mL

Aluminium, Al	2 to 5% HNO_3	100 mL	AC18.00802.0100	CL01.0101.100.0100	✦
		500 mL	AC18.00802.0500	CL01.0101.100.0500	
Antimony, Sb	10 to 20% HCl	100 mL	AC18.00812.0100	CL01.0121.100.0100	✦
		500 mL	AC18.00812.0500	CL01.0121.100.0500	
Antimony, Sb Available as 200	2% HNO_3	100 mL	AC18.20338.0100	CL01.13753.0100	✦
		500 mL	AC18.20338.0500	CL01.13753.0500	
Antimony, Sb Available as 300	2% HNO_3	100 mL	AC18.20304.0100	CL01.13658.0100	✦
	2% HNO_3	500 mL	AC18.20304.0500	CL01.13658.0500	✦
Antimony, Sb Available as 500	5% HNO_3	125 mL	AC18.11854.0125	141-116-121	★
	5% HNO_3	500 mL	AC18.11854.0500	141-116-125	★
Antimony, Sb Available as 500	2% HNO_3	100 mL	AC18.20352.0100	CL01.13813.0100	✦
	2% HNO_3	500 mL	AC18.20352.0500	CL01.13813.0500	✦

Single-Element Calibration Standards - 100 µg/mL					
Antimony, Sb Available as 600	5% HNO_3	125 mL	AC18.06198.0125	140-114-051	★
	5% HNO_3	500 mL	AC18.06198.0500	140-114-055	★
Antimony, Sb Available as 600	2% HNO_3	100 mL	AC18.20298.0100	CL01.13645.0100	✦
	2% HNO_3	500 mL	AC18.20298.0500	CL01.13645.0500	✦
Arsenic, As	2 to 5% HNO_3	100 mL	AC18.00822.0100	CL01.0133.100.0100	✦
		500 mL	AC18.00822.0500	CL01.0133.100.0500	
Barium, Ba	2 to 5% HNO_3	100 mL	AC18.00832.0100	CL01.0201.100.0100	✦
		500 mL	AC18.00832.0500	CL01.0201.100.0500	
Beryllium, Be	2 to 5% HNO_3	100 mL	AC18.00841.0100	CL01.0212.100.0100	✦
		500 mL	AC18.00841.0500	CL01.0212.100.0500	
Bismuth, Bi	5% HNO_3	125 mL	AC18.06429.0125	140-111-021	★
		250 mL	AC18.06429.0250	140-111-022	★
		500 mL	AC18.06429.0500	140-111-025	★
Boron, B	H_2O	100 mL	AC18.00853.0100	CL01.0231.100.0100	✦
		500 mL	AC18.00853.0500	CL01.0231.100.0500	
Cadmium, Cd	2 to 5% HNO_3	100 mL	AC18.00860.0100	CL01.0301.100.0100	✦
		500 mL	AC18.00860.0500	CL01.0301.100.0500	
Caesium, Cs	2 to 5% HNO_3	100 mL	AC18.19696.0100	CL01.0331.100.0100	✦
		500 mL	AC18.19696.0500	CL01.0331.100.0500	
Calcium, Ca	2 to 5% HNO_3	100 mL	AC18.00866.0100	CL01.0311.100.0100	✦
		500 mL	AC18.00866.0500	CL01.0311.100.0500	
Cerium, Ce	2 to 5% HNO_3	100 mL	AC18.00875.0100	CL01.0321.100.0100	✦
		500 mL	AC18.00875.0500	CL01.0321.100.0500	
Chromium, Cr	2 to 5% HNO_3	100 mL	AC18.00887.0100	CL01.0362.100.0100	✦
		500 mL	AC18.00887.0500	CL01.0362.100.0500	
Cobalt, Co	2 to 5% HNO_3	100 mL	AC18.00965.0100	CL01.1121.100.0100	✦
		500 mL	AC18.00965.0500	CL01.1121.100.0500	
Copper, Cu	1% HNO_3	100 mL	AC18.00974.0100	CL01.1131.100.0100	✦
		500 mL	AC18.00974.0500	CL01.1131.100.0500	
Dysprosium, Dy	2 to 5% HNO_3	100 mL	AC18.14480.0100	CL01.0431.100.0100	✦
		500 mL	AC18.14480.0500	CL01.0431.100.0500	

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Description of the chemical standard

Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

Element concentration level in the matrix

Single-Element Calibration Standards - 100 µg/mL

Erbium, Er	2 to 5% HNO_3	100 mL	AC18.19725.0100	CL01.0501.100.0100	✦
		500 mL	AC18.19725.0500	CL01.0501.100.0500	
Europium, Eu	2 to 5% HNO_3	100 mL	AC18.19727.0100	CL01.0511.100.0100	✦
		500 mL	AC18.19727.0500	CL01.0511.100.0500	
Gadolinium, Gd	2 to 5% HNO_3	100 mL	AC18.19766.0100	CL01.0701.100.0100	✦
		500 mL	AC18.19766.0500	CL01.0701.100.0500	
Gallium, Ga	2 to 5% HNO_3	100 mL	AC18.14485.0100	CL01.0711.100.0500	✦
		500 mL	AC18.14485.0500	CL01.0711.100.0100	
Germanium, Ge	2% KOH	100 mL	AC18.19767.0100	CL01.0721.100.0100	✦
		500 mL	AC18.19767.0500	CL01.0721.100.0500	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.19771.0100	CL01.0741.100.0100	
		500 mL	AC18.19771.0500	CL01.0741.100.0500	
Gold, Au	10 to 20% HCl	100 mL	AC18.00921.0100	CL01.0731.100.0100	✦
Hafnium, Hf	2 to 5% HCl	100 mL	AC18.14486.0100	CL01.0801.100.0100	✦
		500 mL	AC18.14486.0500	CL01.0801.100.0500	
	5% HF	100 mL	AC18.15726.0100	CL01.0802.100.0100	
		500 mL	AC18.15726.0500	CL01.0802.100.0500	
Holmium, Ho	5% HNO_3	125 mL	AC18.06431.0125	140-111-041	★
	5% HNO_3	250 mL	AC18.06431.0250	140-111-042	★
	5% HNO_3	500 mL	AC18.06431.0500	140-111-045	★
Holmium, Ho	2 to 5% HNO_3	100 mL	AC18.19778.0100	CL01.0821.100.0100	✦
		500 mL	AC18.19778.0500	CL01.0821.100.0500	
Indium, In	2 to 5% HNO_3	100 mL	AC18.00947.0100	CL01.0921.100.0100	✦
		500 mL	AC18.00947.0500	CL01.0921.100.0500	
	5% HNO_3	125 mL	AC18.06432.0125	140-111-051	★
	5% HNO_3	250 mL	AC18.06432.0250	140-111-052	★
	5% HNO_3	500 mL	AC18.06432.0500	140-111-055	★
Iridium, Ir	10 to 20% HCl	100 mL	AC18.00951.0100	CL01.0931.100.0100	✦
		500 mL	AC18.00951.0500	CL01.0931.100.0500	

Single-Element Calibration Standards - 100 µg/mL					
Iron, Fe	2 to 5% HNO_3	100 mL	AC18.00937.0100	CL01.0901.100.0100	✦
		500 mL	AC18.00937.0500	CL01.0901.100.0500	
Lanthanum, La	2 to 5% HNO_3	100 mL	AC18.13691.0100	CL01.1201.100.0100	✦
		500 mL	AC18.13691.0500	CL01.1201.100.0500	
Lead, Pb	2 to 5% HNO_3	100 mL	AC18.01001.0100	CL01.1221.100.0100	✦
		500 mL	AC18.01001.0500	CL01.1221.100.0500	
Lithium, Li	2 to 5% HNO_3	100 mL	AC18.00995.0100	CL01.1212.100.0100	✦
		500 mL	AC18.00995.0500	CL01.1212.100.0500	
Lutetium, Lu	2 to 5% HNO_3	100 mL	AC18.19845.0100	CL01.1231.100.0100	✦
		500 mL	AC18.19845.0500	CL01.1231.100.0500	
Magnesium, Mg	2 to 5% HNO_3	100 mL	AC18.01010.0100	CL01.1301.100.0100	✦
		500 mL	AC18.01010.0500	CL01.1301.100.0500	
Manganese, Mn	2 to 5% HNO_3	100 mL	AC18.01018.0100	CL01.1311.100.0100	✦
		500 mL	AC18.01018.0500	CL01.1311.100.0500	
Mercury, Hg	0.6% HNO_3	100 mL	AC18.00984.0100	CL01.1151.100.0100	✦
		500 mL	AC18.00984.0500	CL01.1151.100.0500	
	5% HNO_3	100 mL	AC18.01031.0100	CL01.13646.0100	
	5% HNO_3	500 mL	AC18.01031.0500	CL01.13646.0500	
	2% HNO_3	125 mL	AC18.06435.0125	140-114-061	★
	2% HNO_3	500 mL	AC18.06435.0500	140-114-065	★
Mercury, Hg Available as 200	5% HNO_3	100 mL	AC18.01032.0100	CL01.13746.0100	✦
		500 mL	AC18.01032.0500	CL01.13746.0500	
Molybdenum, Mo Available as 500	H_2O	125 mL	AC18.06436.0125	140-124-011	★
		500 mL	AC18.06436.0500	140-124-015	
Molybdenum, Mo	2 to 5% HNO_3 + traces HF	100 mL	AC18.01026.0100	CL01.1331.100.0100	✦
		500 mL	AC18.01026.0500	CL01.1331.100.0500	✦
Neodymium, Nd	2 to 5% HNO_3	100 mL	AC18.01043.0100	CL01.1411.100.0100	✦
		500 mL	AC18.01043.0500	CL01.1411.100.0500	✦
Nickel, Ni	2 to 5% HNO_3	100 mL	AC18.01048.0100	CL01.1421.100.0100	✦
		500 mL	AC18.01048.0500	CL01.1421.100.0500	✦

Single-Element Calibration Standards - 100 µg/mL					
Niobium, Nb	5% HF	100 mL	AC18.13272.0100	CL01.1431.100.0100	✦
		500 mL	AC18.13272.0500	CL01.1431.100.0500	✦
Osmium, Os	2 to 5% HCl	100 mL	AC18.01061.0100	CL01.1501.100.0100	✦
		500 mL	AC18.01061.0500	CL01.1501.100.0500	✦
Palladium, Pd	2 to 5% HNO_3	100 mL	AC18.01065.0100	CL01.1602.100.0100	✦
		500 mL	AC18.01065.0500	CL01.1602.100.0500	✦
Phosphorus, P	2 to 5% HNO_3	100 mL	AC18.03059.0100	CL01.0641.100.0100	✦
		500 mL	AC18.03059.0500	CL01.0641.100.0500	✦
Phosphorus, P Available as 200	5% HNO_3	100 mL	AC18.20347.0100	CL01.13806.0100	✦
		500 mL	AC18.20347.0500	CL01.13806.0500	
Phosphorus, P Available as 200	H_2O	125 mL	AC18.07643.0125	140-101-071	★
		250 mL	AC18.07643.0250	140-101-072	
		500 mL	AC18.07643.0500	140-101-075	
Platinum, Pt	10 to 20% HCl	100 mL	AC18.01069.0100	CL01.1611.100.0100	✦
		500 mL	AC18.01069.0500	CL01.1611.100.0500	✦
Potassium, K	2 to 5% HNO_3	100 mL	AC18.00956.0100	CL01.1101.100.0100	✦
		500 mL	AC18.00956.0500	CL01.1101.100.0500	✦
Praseodymium, Pr	2 to 5% HNO_3	100 mL	AC18.20429.0100	CL01.1621.100.0100	✦
		500 mL	AC18.20429.0500	CL01.1621.100.0500	✦
Rhenium, Re	2 to 5% HNO_3	100 mL	AC18.14531.0100	CL01.1802.100.0100	✦
		500 mL	AC18.14531.0500	CL01.1802.100.0500	✦
Rhodium, Rh	10% HCl	125 mL	AC18.06433.0125	140-111-061	★
		250 mL	AC18.06433.0250	140-111-062	★
		500 mL	AC18.06433.0500	140-111-065	★
	10 to 20% HCl	100 mL	AC18.14532.0100	CL01.1811.100.0100	✦
		500 mL	AC18.14532.0500	CL01.1811.100.0500	✦
Rubidium, Rb	2 to 5% HNO_3	500 mL	AC18.13692.0500	CL01.1822.100.0500	✦
		100 mL	AC18.13692.0100	CL01.1822.100.0100	✦
Ruthenium, Ru	5% HCl	100 mL	AC18.13688.0100	CL01.1831.100.0100	✦
		500 mL	AC18.13688.0500	CL01.1831.100.0500	✦

Single-Element Calibration Standards - 100 µg/mL					
	[ ]				
Samarium, Sm	2 to 5% HNO_3	100 mL	AC18.20434.0100	CL01.1901.100.0100	✦
		500 mL	AC18.20434.0500	CL01.1901.100.0500	✦
Scandium, Sc	5% HNO_3	125 mL	AC18.06428.0125	140-111-011	★
		250 mL	AC18.06428.0250	140-111-012	★
		500 mL	AC18.06428.0500	140-111-015	★
	2 to 5% HNO_3	100 mL	AC18.01089.0100	CL01.1911.100.0100	✦
		500 mL	AC18.01089.0500	CL01.1911.100.0500	✦
Selenium, Se	2 to 5% HNO_3	100 mL	AC18.01094.0100	CL01.1922.100.0100	✦
		500 mL	AC18.01094.0500	CL01.1922.100.0500	✦
Silicon, Si	2 to 5% HNO_3 + traces HF	100 mL	AC18.01102.0100	CL01.1932.100.0100	✦
		500 mL	AC18.01102.0500	CL01.1932.100.0500	✦
Silver, Ag	10% HNO_3	100 mL	AC18.01186.0100	CL01.2601.100.0100	✦
		500 mL	AC18.01186.0500	CL01.2601.100.0500	✦
Sodium, Na	1% HNO_3	100 mL	AC18.01036.0100	CL01.1401.100.0100	✦
		500 mL	AC18.01036.0500	CL01.1401.100.0500	✦
Sulfur, S	H_2O	100 mL	AC18.01210.0100	CL01.2642.100.0100	✦
		500 mL	AC18.01210.0500	CL01.2642.100.0500	✦
Tantalum, Ta	2 to 5% HNO_3 + traces HF	100 mL	AC18.20489.0100	CL01.2002.100.0100	✦
		500 mL	AC18.20489.0500	CL01.2002.100.0500	✦
Tellurium, Te	2 to 5% HNO_3 + traces HF	100 mL	AC18.01123.0100	CL01.2013.100.0100	✦
		500 mL	AC18.01123.0500	CL01.2013.100.0500	✦
	10% HCl	100 mL	AC18.20373.0100	CL01.13863.0100	✦
	10% HCl	500 mL	AC18.20373.0500	CL01.13863.0500	✦
Terbium, Tb	5% HNO_3	125 mL	AC18.06434.0125	140-111-071	★
	5% HNO_3	250 mL	AC18.06434.0250	140-111-072	★
	5% HNO_3	500 mL	AC18.06434.0500	140-111-075	★
	2 to 5% HNO_3	100 mL	AC18.20491.0100	CL01.2022.100.0100	✦
		500 mL	AC18.20491.0500	CL01.2022.100.0500	✦
Thallium, Tl	2 to 5% HNO_3	100 mL	AC18.01133.0100	CL01.2031.100.0100	✦
		500 mL	AC18.01133.0500	CL01.2031.100.0500	✦

★ ISO 17034

✦ ISO 17025

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Regulatory Methods

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Internal & Interference Correction Standard

Description of the chemical standard

[ ] Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

[ppm] Element concentration level in the matrix

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Element concentration level in the matrix

Single-Element Calibration Standards - 100 µg/mL

Thorium, Th	10% HNO_3	100 mL	AC18.01138.0100	CL01.2041.100.0100	✦
		500 mL	AC18.01138.0500	CL01.2041.100.0500	✦
Thulium, Tm	2 to 5% HNO_3	100 mL	AC18.20492.0100	CL01.2051.100.0100	✦
		500 mL	AC18.20492.0500	CL01.2051.100.0500	✦
Tin, Sn	1% HF and 2% HNO_3	100 mL	AC18.01146.0100	CL01.2062.100.0100	✦
		500 mL	AC18.01146.0500	CL01.2062.100.0500	✦
Tin, Sn Available as 200	20% HCl	125 mL	AC18.06108.0100	141-123-041	★
		500 mL	AC18.06108.0500	141-123-045	★
Tin, Sn Available as 400	20% HCl	125 mL	AC18.06104.0100	141-120-141	★
	20% HCl	500 mL	AC18.06104.0500	141-120-145	★
Titanium, Ti	2 to 5% HNO_3 + traces HF	100 mL	AC18.01155.0100	CL01.2075.100.0100	✦
		500 mL	AC18.01155.0500	CL01.2075.100.0500	✦
Tungsten, W	5% HF	100 mL	AC18.01171.0100	CL01.2301.100.0100	✦
		500 mL	AC18.01171.0500	CL01.2301.100.0500	✦
Vanadium, V	2 to 5% HNO_3	100 mL	AC18.01164.0100	CL01.2201.100.0100	✦
		500 mL	AC18.01164.0500	CL01.2201.100.0500	✦
Ytterbium, Yb	2 to 5% HNO_3	100 mL	AC18.20529.0100	CL01.2501.100.0100	✦
		500 mL	AC18.20529.0500	CL01.2501.100.0500	✦
Yttrium, Y	2% HNO_3	125 mL	AC18.06430.0125	140-111-031	★
	2% HNO_3	250 mL	AC18.06430.0250	140-111-032	★
	2% HNO_3	500 mL	AC18.06430.0500	140-111-035	★
	2 to 5% HNO_3	100 mL	AC18.14547.0100	CL01.2511.100.0100	✦
		500 mL	AC18.14547.0500	CL01.2511.100.0500	✦
Zinc, Zn	2 to 5% HNO_3	100 mL	AC18.01193.0100	CL01.2611.100.0100	✦
		500 mL	AC18.01193.0500	CL01.2611.100.0500	✦
Zirconium, Zr	2 to 5% HNO_3 + traces HF	100 mL	AC18.01220.0100	CL01.2672.100.0100	✦
		500 mL	AC18.01220.0500	CL01.2672.100.0500	✦

Single-Element Calibration Standards - 1,000 µg/mL

The 1,000 µg/mL concentration is the traditional benchmark for single element standards. These solutions offer robust stability, excellent long term shelf life, and the flexibility to be diluted into virtually any calibration range required by ICP OES and ICP MS methods.

Why choose 1,000 µg/mL?

- The most common and universal starting point
- Highly stable across all standard matrices (HNO3, HCl, mixed acids)
- Simplifies custom calibrations and multi-element blends
- Suitable for broad range dilution schemes

The industry standard for most laboratories

Single-Element Calibration Standards - 1000 µg/mL

Aluminium (III) oxide, Al_2O_3	2 to 5% HNO_3	100 mL	AC18.00828.0100	CL01.0141.0100	★
		500 mL	AC18.00828.0500	CL01.0141.0500	
Aluminium, Al	3% HNO_3	100 mL	AC18.00232.0100	03812.0000	✦
		250 mL	AC18.00232.0250	03812.1000	
		500 mL	AC18.00232.0500	03812.2000	
	4% HNO_3	(2x25 mL)	AC18.01272.0002	140-051-130	★
		125 mL	AC18.01272.0125	140-051-131	
		500 mL	AC18.01272.0500	140-051-135	
	4% HCl	(2x25 mL)	AC18.06343.0002	140-052-130	
		125 mL	AC18.06343.0125	140-052-131	
		500 mL	AC18.06343.0500	140-052-135	
	2 to 5% HNO_3	100 mL	AC18.00800.0100	CL01.0101.0100	
		500 mL	AC18.00800.0500	CL01.0101.0500	
	2 to 5% HCl	100 mL	AC18.00803.0100	CL01.0102.0100	
		500 mL	AC18.00803.0500	CL01.0102.0500	

Single-Element Calibration Standards - 1000 µg/mL					
Antimony, Sb	17% HCl	100 mL	AC18.00254.0100	03851.0000	✦
		250 mL	AC18.00254.0250	03851.1000	
		500 mL	AC18.00254.0500	03851.2000	
	4% HNO_3	(2x25 mL)	AC18.01310.0002	140-051-510	★
		125 mL	AC18.01310.0125	140-051-511	
		500 mL	AC18.01310.0500	140-051-515	
	10 to 20% HCl	100 mL	AC18.00810.0100	CL01.0121.0100	
		500 mL	AC18.00810.0500	CL01.0121.0500	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.00813.0100	CL01.0122.0100	
		500 mL	AC18.00813.0500	CL01.0122.0500	
	2 to 5% HNO_3 + 0.5% Tartaric Acid	100 mL	AC18.00829.0100	CL01.0162.0100	
		500 mL	AC18.00829.0500	CL01.0162.0500	
Arsenic, As	3% HNO_3	100 mL	AC18.00233.0100	03814.0000	✦
		250 mL	AC18.00233.0250	03814.1000	
		500 mL	AC18.00233.0500	03814.2000	
	2% KOH	100 mL	AC18.00818.0100	CL01.0131.0100	
		500 mL	AC18.00818.0500	CL01.0131.0500	
	4% HNO_3	(2x25 mL)	AC18.01297.0002	140-051-330	★
		125 mL	AC18.01297.0125	140-051-331	
		500 mL	AC18.01297.0500	140-051-335	
	2 to 5% HCl	100 mL	AC18.00819.0100	CL01.0132.0100	
		500 mL	AC18.00819.0500	CL01.0132.0500	
	2 to 5% HNO_3	100 mL	AC18.00820.0100	CL01.0133.0100	
		500 mL	AC18.00820.0500	CL01.0133.0500	

Single-Element Calibration Standards - 1000 µg/mL					
Barium, Ba	3% HNO_3	100 mL	AC18.00236.0100	03818.0000	✦
		250 mL	AC18.00236.0250	03818.1000	
		500 mL	AC18.00236.0500	03818.2000	
	4% HNO_3	(2x25 mL)	AC18.01312.0002	140-051-560	★
		125 mL	AC18.01312.0125	140-051-561	
		500 mL	AC18.01312.0500	140-051-565	
	2 to 5% HNO_3	100 mL	AC18.00830.0100	CL01.0201.0100	
		500 mL	AC18.00830.0500	CL01.0201.0500	
	2 to 5% HCl	100 mL	AC18.00833.0100	CL01.0202.0100	
		500 mL	AC18.00833.0500	CL01.0202.0500	
Beryllium, Be	3% HNO_3	100 mL	AC18.00258.0100	03924.0000	✦
		250 mL	AC18.00258.0250	03924.1000	
		500 mL	AC18.00258.0500	03924.2000	
	4% HNO_3	(2x25 mL)	AC18.06321.0002	140-051-040	★
		125 mL	AC18.06321.0125	140-051-041	
		500 mL	AC18.06321.0500	140-051-045	
	2 to 5% HCl	100 mL	AC18.00839.0100	CL01.0212.0100	
		500 mL	AC18.00839.0500	CL01.0212.0500	
	2 to 5% HNO_3	100 mL	AC18.00838.0100	CL01.0211.0100	
		500 mL	AC18.00838.0500	CL01.0211.0500	
Bismuth, Bi	6% HNO_3	100 mL	AC18.00250.0100	03846.0000	✦
		250 mL	AC18.00250.0250	03846.1000	
		500 mL	AC18.00250.0500	03846.2000	
	4% HNO_3	125 mL	AC18.01323.0125	140-051-831	★
		500 mL	AC18.01323.0500	140-051-835	
	2 to 5% HNO_3	100 mL	AC18.00844.0100	CL01.0221.0100	
		500 mL	AC18.00844.0500	CL01.0221.0500	

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Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

Element concentration level in the matrix

Single-Element Calibration Standards - 1000 µg/mL

Boron, B	0.3% NH_3(aq)	100 mL	AC18.00255.0100	03857.0000	✦
		250 mL	AC18.00255.0250	03857.1000	
		500 mL	AC18.00255.0500	03857.2000	
	H_2O	(2x25 mL)	AC18.01251.0002	140-050-050	★
		125 mL	AC18.01251.0125	140-050-051	
		500 mL	AC18.01251.0500	140-050-055	
	2 to 5% HNO_3	100 mL	AC18.00854.0100	CL01.0232.0100	
		500 mL	AC18.00854.0500	CL01.0232.0500	
	H_2O	100 mL	AC18.00849.0100	CL01.0231.0100	
		500 mL	AC18.00849.0500	CL01.0231.0500	
Cadmium, Cd	3% HNO_3	100 mL	AC18.00240.0100	03828.0000	✦
		250 mL	AC18.00240.0250	03828.1000	
		500 mL	AC18.00240.0500	03828.2000	
	4% HNO_3	(2x25 mL)	AC18.01307.0002	140-051-480	★
		125 mL	AC18.01307.0125	140-051-481	
		500 mL	AC18.01307.0500	140-051-485	
	2 to 5% HCl	100 mL	AC18.00858.0100	CL01.0301.0100	
		500 mL	AC18.00858.0500	CL01.0301.0500	
Caesium, Cs	3% HNO_3	100 mL	AC18.00256.0100	03867.0000	▲
		250 mL	AC18.00256.0250	03867.1000	
		500 mL	AC18.00256.0500	03867.2000	
	4% HNO_3	(2x25 mL)	AC18.06329.0002	140-051-550	★
		125 mL	AC18.06329.0125	140-051-551	
		500 mL	AC18.06329.0500	140-051-555	
	2 to 5% HNO_3	100 mL	AC18.00877.0100	CL01.0331.0100	
		500 mL	AC18.00877.0500	CL01.0331.0500	
Calcium oxide, CaO	2 to 5% HNO_3	100 mL	AC18.19690.0100	CL01.0313.0100	★
		500 mL	AC18.19690.0500	CL01.0313.0500	

Single-Element Calibration Standards - 1000 µg/mL					
Calcium, Ca	3% HNO_3	100 mL	AC18.00243.0100	03832.0000	✦
		250 mL	AC18.00243.0250	03832.1000	
		500 mL	AC18.00243.0500	03832.2000	
	4% HNO_3	(2x25 mL)	AC18.01275.0002	140-051-200	★
		125 mL	AC18.01275.0125	140-051-201	
		500 mL	AC18.01275.0500	140-051-205	
	2 to 5% HCl	100 mL	AC18.00867.0100	CL01.0312.0100	
		500 mL	AC18.00867.0500	CL01.0312.0500	
	2 to 5% HNO_3	100 mL	AC18.19690.0100	CL01.0313.0100	
		500 mL	AC18.19690.0500	CL01.0313.0500	
Cerium, Ce	3% HNO_3	100 mL	AC18.00231.0100	03809.0000	✦
		250 mL	AC18.00231.0250	03809.1000	
		500 mL	AC18.00231.0500	03809.2000	
	4% HNO_3	(2x25 mL)	AC18.06330.0002	140-051-580	★
		125 mL	AC18.06330.0125	140-051-581	
		500 mL	AC18.06330.0500	140-051-585	
	2 to 5% HNO_3	100 mL	AC18.00873.0100	CL01.0321.0100	
		500 mL	AC18.00873.0500	CL01.0321.0500	
Chromium(III), Cr(III)	4% HNO_3	125 mL	AC18.01281.0125	140-051-241	★
		500 mL	AC18.01281.0500	140-051-245	

Single-Element Calibration Standards - 1000 µg/mL					
Chromium, Cr	3% HNO_3	100 mL	AC18.00247.0100	03836.0000	✦
		250 mL	AC18.00247.0250	03836.1000	
		500 mL	AC18.00247.0500	03836.2000	
	4% HCl	(2x25 mL)	AC18.06344.0002	140-052-240	★
		125 mL	AC18.06344.0125	140-052-241	
		500 mL	AC18.06344.0500	140-052-245	
	2 to 5% HCl	100 mL	AC18.00884.0100	CL01.0361.0100	
		500 mL	AC18.00884.0500	CL01.0361.0500	
	2 to 5% HNO_3	100 mL	AC18.00885.0100	CL01.0362.0100	
		500 mL	AC18.00885.0500	CL01.0362.0500	
	H_2O	100 mL	AC18.00880.0100	CL01.0352.0100	
		500 mL	AC18.00880.0500	CL01.0352.0500	
	5% HNO_3	100 mL	AC18.00587.0100	27467.0000	▲
		250 mL	AC18.00587.0250	27467.1000	
		500 mL	AC18.00587.0500	27467.2000	
Cobalt, Co	3% HNO_3	100 mL	AC18.00251.0100	03847.0000	✦
		250 mL	AC18.00251.0250	03847.1000	
		500 mL	AC18.00251.0500	03847.2000	
	4% HNO_3	500 mL	AC18.01288.0500	140-051-275	★
	2 to 5% HCl	100 mL	AC18.00966.0100	CL01.1122.0100	
		500 mL	AC18.00966.0500	CL01.1122.0500	
	2 to 5% HNO_3	100 mL	AC18.00963.0100	CL01.1121.0100	
		500 mL	AC18.00963.0500	CL01.1121.0500	

Single-Element Calibration Standards - 1000 µg/mL					
	[matrix]				
Copper, Cu	3% HNO_3	100 mL	AC18.00188.0100	03713.0000	✦
		250 mL	AC18.00188.0250	03713.1000	
		500 mL	AC18.00188.0500	03713.2000	
	4% HNO_3	(2x25 mL)	AC18.01293.0002	140-051-290	★
		125 mL	AC18.01293.0125	140-051-291	
		500 mL	AC18.01293.0500	140-051-295	
	2 to 5% HCl	100 mL	AC18.00975.0100	CL01.1132.0100	
		500 mL	AC18.00975.0500	CL01.1132.0500	
	2 to 5% HNO_3	100 mL	AC18.00972.0100	CL01.1131.0100	
		500 mL	AC18.00972.0500	CL01.1131.0500	
Dysprosium, Dy	3% HNO_3	100 mL	AC18.00189.0100	03716.0000	✦
		250 mL	AC18.00189.0250	03716.1000	
		500 mL	AC18.00189.0500	03716.2000	
	4% HNO_3	(2x25 mL)	AC18.06336.0002	140-051-660	★
		125 mL	AC18.06336.0125	140-051-661	
		500 mL	AC18.06336.0500	140-051-665	
	2 to 5% HNO_3	100 mL	AC18.00896.0100	CL01.0431.0100	
		500 mL	AC18.00896.0500	CL01.0431.0500	
Erbium, Er	3% HNO_3	100 mL	AC18.00224.0100	03782.0000	✦
		250 mL	AC18.00224.0250	03782.1000	
		500 mL	AC18.00224.0500	03782.2000	
Erbium, Er	4% HNO_3	(2x25 mL)	AC18.06338.0002	140-051-680	★
		125 mL	AC18.06338.0125	140-051-681	
		500 mL	AC18.06338.0500	140-051-685	
	2 to 5% HNO_3	100 mL	AC18.00898.0100	CL01.0501.0100	
		500 mL	AC18.00898.0500	CL01.0501.0500	

ISO 17034
ISO 17025
Analytical Standard

Calibration & Verification Standards
Quality Control & Performance Check Standards
Instrument Performance & Tuning Solutions
Regulatory Methods
Environmental Water Standards
Internal & Interference Correction Standard

Description of the chemical standard
Matrix – The solution base or solvent used
Compliance status with relevant ISO standards
Functional categories (Multi-Element Standards)
Volume or quantity supplied
Legacy Item Number
Current product identification code
Count of elements included in the standard
Specific element(s) present in the solution
Composition
Element concentration level in the matrix

ISO 17034

ISO 17025

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Description of the chemical standard

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Element concentration level in the matrix

Single-Element Calibration Standards - 1000 µg/mL

Europium, Eu	3% HNO_3	100 mL	AC18.00191.0100	03718.0000	✦
		250 mL	AC18.00191.0250	03718.1000	
		500 mL	AC18.00191.0500	03718.2000	
	4% HNO_3	(2x25 mL)	AC18.06333.0002	140-051-630	★
		125 mL	AC18.06333.0125	140-051-631	
		500 mL	AC18.06333.0500	140-051-635	
	2 to 5% HNO_3	100 mL	AC18.00900.0100	CL01.0511.0100	
		500 mL	AC18.00900.0500	CL01.0511.0500	
Gadolinium, Gd	3% HNO_3	100 mL	AC18.00192.0100	03720.0000	✦
		250 mL	AC18.00192.0250	03720.1000	
		500 mL	AC18.00192.0500	03720.2000	
	4% HNO_3	(2x25 mL)	AC18.06334.0002	140-051-640	★
		125 mL	AC18.06334.0125	140-051-641	
		500 mL	AC18.06334.0500	140-051-645	
	2 to 5% HNO_3	100 mL	AC18.00912.0100	CL01.0701.0100	
		500 mL	AC18.00912.0500	CL01.0701.0500	
Gallium, Ga	3% HNO_3 + traces HCl	100 mL	AC18.00194.0100	03722.0000	✦
		250 mL	AC18.00194.0250	03722.1000	
		500 mL	AC18.00194.0500	03722.2000	
	4% HNO_3	(2x25 mL)	AC18.06325.0002	140-051-310	★
		125 mL	AC18.06325.0125	140-051-311	
	HNO_3	500 mL	AC18.06325.0500	140-051-315	
	2 to 5% HNO_3	100 mL	AC18.00915.0100	CL01.0711.0100	
		500 mL	AC18.00915.0500	CL01.0711.0500	

Single-Element Calibration Standards - 1000 µg/mL					
Germanium, Ge	3% HNO_3 + traces HF	100 mL	AC18.00239.0100	03823.0000	✦
		250 mL	AC18.00239.0250	03823.1000	
		500 mL	AC18.00239.0500	03823.2000	
	H_2O/tr.F-	(2x25 mL)	AC18.06314.0002	140-050-320	★
		125 mL	AC18.06314.0125	140-050-321	
		500 mL	AC18.06314.0500	140-050-325	
	2% KOH	100 mL	AC18.00917.0100	CL01.0721.0100	
		500 mL	AC18.00917.0500	CL01.0721.0500	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.00923.0100	CL01.0741.0100	
		500 mL	AC18.00923.0500	CL01.0741.0500	
Gold, Au	3.5% HCl	100 mL	AC18.00139.0100	03472.0000	✦
		250 mL	AC18.00139.0250	03472.1000	
		500 mL	AC18.00139.0500	03472.2000	
	10% HCl	125 mL	AC18.06352.0125	140-052-791	★
		500 mL	AC18.06352.0500	140-052-795	
	10 to 25% HCl	100 mL	AC18.00950.0100	CL01.0931.0100	
		500 mL	AC18.00950.0500	CL01.0931.0500	
Hafnium, Hf	3.5% HCl	100 mL	AC18.00195.0100	03724.0000	✦
		250 mL	AC18.00195.0250	03724.1000	
		500 mL	AC18.00195.0500	03724.2000	
	4% HCl	(2x25 mL)	AC18.06348.0002	140-052-720	★
		125 mL	AC18.06348.0125	140-052-721	
		500 mL	AC18.06348.0500	140-052-725	
	1% HF	100 mL	AC18.00925.0100	CL01.0801.0100	
		500 mL	AC18.00925.0500	CL01.0801.0500	
	2 to 5% HCl	100 mL	AC18.00926.0100	CL01.0802.0100	
		500 mL	AC18.00926.0500	CL01.0802.0500	

Single-Element Calibration Standards - 1000 µg/mL					
	[ ]				
Holmium, Ho	3% HNO_3	100 mL	AC18.00220.0100	03769.0000	✦
		250 mL	AC18.00220.0250	03769.1000	
		500 mL	AC18.00220.0500	03769.2000	
	4% HNO_3	(2x25 mL)	AC18.05735.0025	140-051-670	★
		125 mL	AC18.05735.0125	140-051-671	
		500 mL	AC18.05735.0500	140-051-675	
	2 to 5% HNO_3	100 mL	AC18.00930.0100	CL01.0821.0100	
		500 mL	AC18.00930.0500	CL01.0821.0500	
Indium, In	3% HNO_3	100 mL	AC18.00197.0100	03726.0000	✦
		250 mL	AC18.00197.0250	03726.1000	
		500 mL	AC18.00197.0500	03726.2000	
	4% HNO_3	(2x25 mL)	AC18.06327.0002	140-051-490	★
		125 mL	AC18.06327.0125	140-051-491	
		500 mL	AC18.06327.0500	140-051-495	
	2 to 5% HNO_3	100 mL	AC18.00945.0100	CL01.0921.0100	
		500 mL	AC18.00945.0500	CL01.0921.0500	
Iridium, Ir	3.5% HCl	100 mL	AC18.00199.0100	03728.0000	▲
		250 mL	AC18.00199.0250	03728.1000	
		500 mL	AC18.00199.0500	03728.2000	
	10% HCl	(2x25 mL)	AC18.06350.0002	140-052-770	★
		125 mL	AC18.06350.0125	140-052-771	
		500 mL	AC18.06350.0500	140-052-775	
	10 to 20% HCl	100 mL	AC18.00950.0100	CL01.0931.0100	
		500 mL	AC18.00950.0500	CL01.0931.0500	
Iron(III) oxide, Fe_2O_3	2 to 5% HNO_3	100 mL	AC18.00953.0100	CL01.0941.0100	★
		500 mL	AC18.00953.0500	CL01.0941.0500	

Single-Element Calibration Standards - 1000 µg/mL					
	[matrix]				
Iron, Fe	3% HNO_3	100 mL	AC18.00248.0100	03840.0000	✦
		250 mL	AC18.00248.0250	03840.1000	
		500 mL	AC18.00248.0500	03840.2000	
	4% HNO_3	(2x25 mL)	AC18.01286.0002	140-051-260	★
		125 mL	AC18.01286.0125	140-051-261	
	2 to 5% HCl	100 mL	AC18.00933.0100	CL01.0901.0100	
		500 mL	AC18.00933.0500	CL01.0901.0500	
	2 to 5% HNO_3	100 mL	AC18.00938.0100	CL01.0902.0100	
		500 mL	AC18.00938.0500	CL01.0902.0500	
Lanthanum, La	3% HNO_3	100 mL	AC18.00490.0100	21583.0000	✦
		250 mL	AC18.00490.0250	21583.1000	
		500 mL	AC18.00490.0500	21583.2000	
	4% HNO_3	(2x25 mL)	AC18.01313.0002	140-051-570	★
		125 mL	AC18.01313.0125	140-051-571	
		500 mL	AC18.01313.0500	140-051-575	
	2 to 5% HCl	100 mL	AC18.00990.0100	CL01.1202.0100	
		500 mL	AC18.00990.0500	CL01.1202.0500	
	2 to 5% HNO_3	100 mL	AC18.00989.0100	CL01.1201.0100	
		500 mL	AC18.00989.0500	CL01.1201.0500	
Lead, Pb	3% HNO_3	100 mL	AC18.00215.0100	03760.0000	✦
		250 mL	AC18.00215.0250	03760.1000	
		500 mL	AC18.00215.0500	03760.2000	
	30% HCl + 10% HNO_3	100 mL	AC18.00511.0100	22931.0000	
		250 mL	AC18.00511.0250	22931.1000	
		500 mL	AC18.00511.0500	22931.2000	
	4% HNO_3	(2x25 mL)	AC18.01321.0002	140-051-820	★
		125 mL	AC18.01321.0125	140-051-821	
		500 mL	AC18.01321.0500	140-051-825	
	2 to 5% HNO_3	100 mL	AC18.00999.0100	CL01.1221.0100	
		500 mL	AC18.00999.0500	CL01.1221.0500	

★ ISO 17034
✦ ISO 17025
▲ Analytical Standard

Calibration & Verification Standards
Quality Control & Performance Check Standards
Instrument Performance & Tuning Solutions
Regulatory Methods
Environmental Water Standards
Internal & Interference Correction Standard

Description of the chemical standard
[matrix] Matrix – The solution base or solvent used
Compliance status with relevant ISO standards
Functional categories (Multi-Element Standards)
Volume or quantity supplied
Legacy Item Number
Current product identification code
Count of elements included in the standard
Specific element(s) present in the solution
Composition
[ppm] Element concentration level in the matrix

ISO 17034

ISO 17025

Analytical Standard

Calibration & Verification Standards

Quality Control & Performance Check Standards

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Description of the chemical standard

Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

Element concentration level in the matrix

Single-Element Calibration Standards - 1000 µg/mL

Lithium, Li	3% HNO_3	100 mL	AC18.00200.0100	03729.0000	✦
		250 mL	AC18.00200.0250	03729.1000	
		500 mL	AC18.00200.0500	03729.2000	
	4% HNO_3	(2x25 mL)	AC18.01266.0002	140-051-030	★
		125 mL	AC18.01266.0125	140-051-031	
		500 mL	AC18.01266.0500	140-051-035	
	2 to 5% HCl	100 mL	AC18.00992.0100	CL01.1211.0100	
		500 mL	AC18.00992.0500	CL01.1211.0500	
	2 to 5% HNO_3	100 mL	AC18.00993.0100	CL01.1212.0100	
		500 mL	AC18.00993.0500	CL01.1212.0500	
Lutetium, Lu	3% HNO_3	100 mL	AC18.00223.0100	03775.0000	✦
		250 mL	AC18.00223.0250	03775.1000	
		500 mL	AC18.00223.0500	03775.2000	
	4% HNO_3	(2x25 mL)	AC18.06341.0002	140-051-710	★
		125 mL	AC18.06341.0125	140-051-711	
		500 mL	AC18.06341.0500	140-051-715	
	2 to 5% HNO_3	100 mL	AC18.01005.0100	CL01.1231.0100	
		500 mL	AC18.01005.0500	CL01.1231.0500	
Magnesium oxide, MgO	2 to 5% HNO_3	100 mL	AC18.01012.0100	CL01.1303.0100	★
		500 mL	AC18.01012.0500	CL01.1303.0500	
Magnesium, Mg	3% HNO_3	100 mL	AC18.00235.0100	03817.0000	✦
		250 mL	AC18.00235.0250	03817.1000	
		500 mL	AC18.00235.0500	03817.2000	
	4% HNO_3	(2x25 mL)	AC18.01270.0002	140-051-120	★
		125 mL	AC18.01270.0125	140-051-121	
		500 mL	AC18.01270.0500	140-051-125	
	2 to 5% HCl	100 mL	AC18.01011.0100	CL01.1302.0100	
		500 mL	AC18.01011.0500	CL01.1302.0500	
	2 to 5% HNO_3	100 mL	AC18.01008.0100	CL01.1301.0100	
		500 mL	AC18.01008.0500	CL01.1301.0500	
Manganese(III) oxide, Mn_2O_3	2 to 5% HNO_3	100 mL	AC18.20210.0100	CL01.1341.0100	★
		500 mL	AC18.20210.0500	CL01.1341.0500	

Single-Element Calibration Standards - 1000 µg/mL					
Manganese, Mn	3% HNO_3	100 mL	AC18.00238.0100	03822.0000	✦
		250 mL	AC18.00238.0250	03822.1000	
		500 mL	AC18.00238.0500	03822.2000	
	4% HNO_3	(2x25 mL)	AC18.01284.0002	140-051-250	★
		125 mL	AC18.01284.0125	140-051-251	
		500 mL	AC18.01284.0500	140-051-255	
	2 to 5% HCl	100 mL	AC18.01019.0100	CL01.1312.0100	
		500 mL	AC18.01019.0500	CL01.1312.0500	
	2 to 5% HNO_3	100 mL	AC18.01016.0100	CL01.1311.0100	
		500 mL	AC18.01016.0500	CL01.1311.0500	
Mercury, Hg	3% HNO_3	100 mL	AC18.00249.0100	03843.0000	▲
		250 mL	AC18.00249.0250	03843.1000	
		500 mL	AC18.00249.0500	03843.2000	
	10% HNO_3	(2x25 mL)	AC18.01317.0002	140-051-800	★
		125 mL	AC18.01317.0125	140-051-801	
		500 mL	AC18.01317.0500	140-051-805	
	2 to 5% HNO_3	100 mL	AC18.00981.0100	CL01.1151.0100	
		500 mL	AC18.00981.0500	CL01.1151.0500	
Molybdenum, Mo	6% HNO_3 + traces HF	100 mL	AC18.00257.0100	03923.0000	✦
		250 mL	AC18.00257.0250	03923.1000	
		500 mL	AC18.00257.0500	03923.2000	
	H_2O	(2x25 mL)	AC18.01261.0002	140-050-420	★
		125 mL	AC18.01261.0125	140-050-421	
		500 mL	AC18.01261.0500	140-050-425	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.01027.0100	CL01.1332.0100	
		500 mL	AC18.01027.0500	CL01.1332.0500	
	2% NH_4OH	100 mL	AC18.01024.0100	CL01.1331.0100	
		500 mL	AC18.01024.0500	CL01.1331.0500	

Single-Element Calibration Standards - 1000 µg/mL					
Neodymium, Nd	2% HCl	100 mL	AC18.06960.0100	21424.0000	▲
		250 mL	AC18.06960.0250	21424.1000	
		500 mL	AC18.06960.0500	21424.2000	
	3% HNO_3	100 mL	AC18.00201.0100	03730.0000	✦
		250 mL	AC18.00201.0250	03730.1000	
		500 mL	AC18.00201.0500	03730.2000	
	4% HNO_3	(2x25 mL)	AC18.06331.0002	140-051-600	★
		125 mL	AC18.06331.0125	140-051-601	
		500 mL	AC18.06331.0500	140-051-605	
	2 to 5% HNO_3	100 mL	AC18.01042.0100	CL01.1411.0100	
		500 mL	AC18.01042.0500	CL01.1411.0500	
Nickel, Ni	3% HNO_3	100 mL	AC18.00244.0100	03833.0000	✦
		250 mL	AC18.00244.0250	03833.1000	
		500 mL	AC18.00244.0500	03833.2000	
	4% HNO_3	(2x25 mL)	AC18.01290.0002	140-051-280	★
		125 mL	AC18.01290.0125	140-051-281	
		500 mL	AC18.01290.0500	140-051-285	
	2 to 5% HCl	100 mL	AC18.01049.0100	CL01.1422.0100	
		500 mL	AC18.01049.0500	CL01.1422.0500	
	2 to 5% HNO_3	100 mL	AC18.01045.0100	CL01.1421.0100	
		500 mL	AC18.01045.0500	CL01.1421.0500	
Niobium, Nb	HF 2-3%	100 mL	AC18.00202.0100	03732.0000	✦
		250 mL	AC18.00202.0250	03732.1000	
		500 mL	AC18.00202.0500	03732.2000	
	1% HF	(2x25 mL)	AC18.06317.0002	140-050-410	★
		125 mL	AC18.06317.0125	140-050-411	
		500 mL	AC18.06317.0500	140-050-415	
	5% HF	100 mL	AC18.01055.0100	CL01.1431.0100	
		500 mL	AC18.01055.0500	CL01.1431.0500	

Single-Element Calibration Standards - 1000 µg/mL					
	[matrix]				
Osmium, Os	3.5% HCl	100 mL	AC18.00228.0100	03801.0000	▲
		250 mL	AC18.00228.0250	03801.1000	
		500 mL	AC18.00228.0500	03801.2000	
	20% HCl	(2x25 mL)	AC18.06349.0002	140-052-760	★
		125 mL	AC18.06349.0125	140-052-761	
		500 mL	AC18.06349.0500	140-052-765	
	2 to 5% HCl	100 mL	AC18.01059.0100	CL01.1501.0100	
		500 mL	AC18.01059.0500	CL01.1501.0500	
Palladium, Pd	6% HNO_3	100 mL	AC18.00203.0100	03733.0000	✦
		250 mL	AC18.00203.0250	03733.1000	
		500 mL	AC18.00203.0500	03733.2000	
	10% HCl	(2x25 mL)	AC18.06347.0002	140-052-460	★
		125 mL	AC18.06347.0125	140-052-461	
		500 mL	AC18.06347.0500	140-052-465	
	10 to 20% HCl	100 mL	AC18.01062.0100	CL01.1601.0100	
		500 mL	AC18.01062.0500	CL01.1601.0500	
Phosphorus pentoxide, P_2O_3	H_2O	100 mL	AC18.03047.0100	CL01.0621.0100	★
		500 mL	AC18.03047.0500	CL01.0621.0500	

★ ISO 17034

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Internal & Interference Correction Standard

Description of the chemical standard

[matrix] Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

[ppm] Element concentration level in the matrix

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Single-Element Calibration Standards - 1000 µg/mL

Phosphorus, P	H_2O	100 mL	AC18.00297.0100	05935.0000	✦
		250 mL	AC18.00297.0250	05935.1000	
		500 mL	AC18.00297.0500	05935.2000	
		100 mL	AC18.00315.0100	10882.0000	
		250 mL	AC18.00315.0250	10882.1000	
		500 mL	AC18.00315.0500	10882.2000	
	H_2O	(2x25 mL)	AC18.01255.0002	140-050-150	★
		125 mL	AC18.01255.0125	140-050-151	
		500 mL	AC18.01255.0500	140-050-155	
	2 to 5% HNO_3	100 mL	AC18.03057.0100	CL01.0641.0100	
		500 mL	AC18.03057.0500	CL01.0641.0500	
	H_2O	100 mL	AC18.03054.0100	CL01.0631.0100	
		100 mL	AC18.03054.0500	CL01.0631.0500	
		500 mL	AC18.03061.0100	CL01.0646.0100	
		500 mL	AC18.03061.0500	CL01.0646.0500	
Platinum, Pt	7% HCl	100 mL	AC18.00148.0100	03537.0000	✦
		250 mL	AC18.00148.0250	03537.1000	
		500 mL	AC18.00148.0500	03537.2000	
	10% HCl	125 mL	AC18.06351.0125	140-052-781	★
		500 mL	AC18.06351.0500	140-052-785	
	10 to 20% HCl	100 mL	AC18.01067.0100	CL01.1611.0100	
		500 mL	AC18.01067.0500	CL01.1611.0500	
Potassium oxide, K_2O	2 to 5% HNO_3	100 mL	AC18.02410.0100	CL01.1103.0100	★
		500 mL	AC18.02410.0500	CL01.1103.0500	
Potassium, K	3% HNO_3	100 mL	AC18.00222.0100	03773.0000	✦
		250 mL	AC18.00222.0250	03773.1000	
		500 mL	AC18.00222.0500	03773.2000	
	2 to 5% HCl	100 mL	AC18.00957.0100	CL01.1102.0100	★
		500 mL	AC18.00957.0500	CL01.1102.0500	
	2 to 5% HNO_3	100 mL	AC18.00954.0100	CL01.1101.0100	
		500 mL	AC18.00954.0500	CL01.1101.0500	

Single-Element Calibration Standards - 1000 µg/mL					
Praseodymium, Pr	3% HNO_3	100 mL	AC18.00204.0100	03734.0000	✦
		250 mL	AC18.00204.0250	03734.1000	
		500 mL	AC18.00204.0500	03734.2000	
	4% HNO_3	(2x25 mL)	AC18.01314.0002	140-051-590	★
		125 mL	AC18.01314.0125	140-051-591	
		500 mL	AC18.01314.0500	140-051-595	
	2 to 5% HNO_3	100 mL	AC18.01071.0100	CL01.1621.0100	
		500 mL	AC18.01071.0500	CL01.1621.0500	
Rhenium, Re	6% HNO_3	100 mL	AC18.00246.0100	03835.0000	✦
		250 mL	AC18.00246.0250	03835.1000	
		500 mL	AC18.00246.0500	03835.2000	
	H_2O	(2x25 mL)	AC18.06320.0002	140-050-750	★
		125 mL	AC18.06320.0125	140-050-751	
		500 mL	AC18.06320.0500	140-050-755	
	2 to 5% HNO_3	100 mL	AC18.01074.0100	CL01.1802.0100	
		500 mL	AC18.01074.0500	CL01.1802.0500	
	H_2O	100 mL	AC18.01073.0100	CL01.1801.0100	
		500 mL	AC18.01073.0500	CL01.1801.0500	
Rhodium, Rh	3.5% HCl	100 mL	AC18.00205.0100	03736.0000	✦
		250 mL	AC18.00205.0250	03736.1000	
		500 mL	AC18.00205.0500	03736.2000	
	10% HCl	(2x25 mL)	AC18.01326.0002	140-052-450	★
		125 mL	AC18.01326.0125	140-052-451	
		500 mL	AC18.01326.0500	140-052-455	
	10 to 20% HCl	100 mL	AC18.01077.0100	CL01.1811.0100	
		500 mL	AC18.01077.0500	CL01.1811.0500	

Single-Element Calibration Standards - 1000 µg/mL					
Rubidium, Rb	HNO_3 5%	100 mL	AC18.00206.0100	03737.0000	✦
		250 mL	AC18.00206.0250	03737.1000	
		500 mL	AC18.00206.0500	03737.2000	
	4% HNO_3	(2x25 mL)	AC18.06326.0002	140-051-370	★
		125 mL	AC18.06326.0125	140-051-371	
		500 mL	AC18.06326.0500	140-051-375	
	2 to 5% HCl	100 mL	AC18.13274.0100	CL01.1821.0100	
		500 mL	AC18.13274.0500	CL01.1821.0500	
	2 to 5% HNO_3	100 mL	AC18.01080.0100	CL01.1822.0100	
		500 mL	AC18.01080.0500	CL01.1822.0500	
Ruthenium, Ru	3.5% HCl	100 mL	AC18.00207.0100	03738.0000	▲
		250 mL	AC18.00207.0250	03738.1000	
		500 mL	AC18.00207.0500	03738.2000	
	10% HCl	(2x25 mL)	AC18.06346.0002	140-052-440	★
		125 mL	AC18.06346.0125	140-052-441	
	10 to 20% HCl	100 mL	AC18.01082.0100	CL01.1831.0100	
		500 mL	AC18.01082.0500	CL01.1831.0500	
Samarium, Sm	3% HNO_3	100 mL	AC18.00213.0100	03746.0000	✦
		250 mL	AC18.00213.0250	03746.1000	
		500 mL	AC18.00213.0500	03746.2000	
	4% HNO_3	(2x25 mL)	AC18.06332.0002	140-051-620	★
		125 mL	AC18.06332.0125	140-051-621	
		500 mL	AC18.06332.0500	140-051-625	
	2 to 5% HNO_3	100 mL	AC18.01085.0100	CL01.1901.0100	
		500 mL	AC18.01085.0500	CL01.1901.0500	

Single-Element Calibration Standards - 1000 µg/mL					
	[matrix]				
Scandium, Sc	11% HNO_3	100 mL	AC18.00149.0100	03577.0000	▲
		250 mL	AC18.00149.0250	03577.1000	
		500 mL	AC18.00149.0500	03577.2000	
		100 mL	AC18.00253.0100	03850.0000	
		250 mL	AC18.00253.0250	03850.1000	
		500 mL	AC18.00253.0500	03850.2000	
	HCl 2%	100 mL	AC18.00483.0100	21423.0000	✦
		250 mL	AC18.00483.0250	21423.1000	
		500 mL	AC18.00483.0500	21423.2000	
	4% HNO_3	(2x25 mL)	AC18.01277.0002	140-051-210	★
		125 mL	AC18.01277.0125	140-051-211	
		500 mL	AC18.01277.0500	140-051-215	
	2 to 5% HNO_3	100 mL	AC18.01087.0100	CL01.1911.0100	
		500 mL	AC18.01087.0500	CL01.1911.0500	
Selenium, Se	3% HNO_3	100 mL	AC18.00229.0100	03802.0000	✦
		250 mL	AC18.00229.0250	03802.1000	
		500 mL	AC18.00229.0500	03802.2000	
	4% HNO_3	(2x25 mL)	AC18.01299.0002	140-051-340	★
		125 mL	AC18.01299.0125	140-051-341	
		500 mL	AC18.01299.0500	140-051-345	
	10% HCl	100 mL	AC18.01091.0100	CL01.1921.0100	
		500 mL	AC18.01091.0500	CL01.1921.0500	
		5000 mL	AC18.01091.5000	CL01.1921.5000	
	2 to 5% HNO_3	100 mL	AC18.01092.0100	CL01.1922.0100	
		500 mL	AC18.01092.0500	CL01.1922.0500	
Silicium dioxide, SiO_2	5% HF	100 mL	AC18.03131.0100	CL01.1941.0100	★
		500 mL	AC18.03131.0500	CL01.1941.0500	

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Composition
Element concentration level in the matrix

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Single-Element Calibration Standards - 1000 µg/mL

	[ ]				
Silicon, Si	H_2O + traces HF	100 mL	AC18.00613.0100	28517.0000	✦
		250 mL	AC18.00613.0250	28517.1000	
		500 mL	AC18.00613.0500	28517.2000	
	H_2O	500 mL	AC18.01253.0500	140-050-145	★
	2 to 5% HNO_3 + traces HF	100 mL	AC18.01108.0100	CL01.1945.0100	
		500 mL	AC18.01108.0500	CL01.1945.0500	
	2% NaOH	100 mL	AC18.01105.0100	CL01.1935.0100	
		500 mL	AC18.01105.0500	CL01.1935.0500	
	5% HF	100 mL	AC18.01100.0100	CL01.1932.0100	
		500 mL	AC18.01100.0500	CL01.1932.0500	
Silver, Ag	3% HNO_3	100 mL	AC18.00269.0100	03957.0700	✦
		250 mL	AC18.00269.0250	03957.1700	
		500 mL	AC18.00269.0500	03957.2700	
	4% HNO_3	(2x25 mL)	AC18.01305.0002	140-051-470	★
		125 mL	AC18.01305.0125	140-051-471	
		500 mL	AC18.01305.0500	140-051-475	
	2 to 5% HNO_3	100 mL	AC18.01184.0100	CL01.2601.0100	
		500 mL	AC18.01184.0500	CL01.2601.0500	
Sodium oxide, Na_2O	2 to 5% HNO_3	100 mL	AC18.20379.0100	CL01.1403.0100	★
		500 mL	AC18.20379.0500	CL01.1403.0500	
Sodium, Na	3% HNO_3	100 mL	AC18.00259.0100	03929.0000	✦
		250 mL	AC18.00259.0250	03929.1000	
		500 mL	AC18.00259.0500	03929.2000	
	2 to 5% HCl	100 mL	AC18.01037.0100	CL01.1402.0100	★
		500 mL	AC18.01037.0500	CL01.1402.0500	
	2 to 5% HNO_3	100 mL	AC18.01034.0100	CL01.1401.0100	
		500 mL	AC18.01034.0500	CL01.1401.0500	
	4% HNO_3	(2x25 mL)	AC18.01269.0002	140-051-110	
		125 mL	AC18.01269.0125	140-051-111	
		500 mL	AC18.01269.0500	140-051-115	

Single-Element Calibration Standards - 1000 µg/mL					
Sodium, Na Available at 5000	5% HNO_3	125 mL	AC18.06175.0125	140-104-051	★
		250 mL	AC18.06175.0250	140-104-052	
		500 mL	AC18.06175.0500	140-104-055	
Strontium, Sr	3% HNO_3	100 mL	AC18.00266.0100	03937.0000	✦
		250 mL	AC18.00266.0250	03937.1000	
		500 mL	AC18.00266.0500	03937.2000	
	4% HNO_3	(2x25 mL)	AC18.01301.0002	140-051-380	★
		125 mL	AC18.01301.0125	140-051-381	
		500 mL	AC18.01301.0500	140-051-385	
	2 to 5% HCl	100 mL	AC18.01110.0100	CL01.1961.0100	
		500 mL	AC18.01110.0500	CL01.1961.0500	
	2 to 5% HNO_3	100 mL	AC18.01111.0100	CL01.1962.0100	
		500 mL	AC18.01111.0500	CL01.1962.0500	
Sulfur, S	H_2O	(2x25 mL)	AC18.01257.0002	140-050-160	★
		125 mL	AC18.01257.0125	140-050-161	
		500 mL	AC18.01257.0500	140-050-165	
		100 mL	AC18.01207.0100	CL01.2641.0100	
		100 mL	AC18.01207.0500	CL01.2641.0500	
		500 mL	AC18.01208.0100	CL01.2642.0100	
		500 mL	AC18.01208.0500	CL01.2642.0500	
	H_2O	100 mL	AC18.00302.0100	10362.0000	✦
		250 mL	AC18.00302.0250	10362.1000	
		500 mL	AC18.00302.0500	10362.2000	

Single-Element Calibration Standards - 1000 µg/mL					
Tantalum, Ta	2% HF	100 mL	AC18.00237.0100	03820.0000	✦
		250 mL	AC18.00237.0250	03820.1000	
		500 mL	AC18.00237.0500	03820.2000	
	1% HF/ tr. HNO_3	(2x25 mL)	AC18.01263.0002	140-050-730	★
		125 mL	AC18.01263.0125	140-050-731	
		500 mL	AC18.01263.0500	140-050-735	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.01115.0100	CL01.2001.0100	
		500 mL	AC18.01115.0500	CL01.2001.0500	
	5% HF	100 mL	AC18.01116.0100	CL01.2002.0100	
		500 mL	AC18.01116.0500	CL01.2002.0500	
Tellurium, Te	17% HNO_3	100 mL	AC18.00226.0100	03789.0000	✦
		250 mL	AC18.00226.0250	03789.1000	
		500 mL	AC18.00226.0500	03789.2000	
	10% HNO_3	(2x25 mL)	AC18.06328.0002	140-051-520	★
		125 mL	AC18.06328.0125	140-051-521	
		500 mL	AC18.06328.0500	140-051-525	
	10% HCl	(2x25 mL)	AC18.01328.0002	140-052-520	
		125 mL	AC18.01328.0125	140-052-521	
	10 to 20% HCl	100 mL	AC18.01120.0100	CL01.2012.0100	
		500 mL	AC18.01120.0500	CL01.2012.0500	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.01121.0100	CL01.2013.0100	
		500 mL	AC18.01121.0500	CL01.2013.0500	
	2% KOH	100 mL	AC18.01119.0100	CL01.2011.0100	
		500 mL	AC18.01119.0500	CL01.2011.0500	
Terbium, Tb	3% HNO_3	100 mL	AC18.00217.0100	03764.0000	✦
		250 mL	AC18.00217.0250	03764.1000	
		500 mL	AC18.00217.0500	03764.2000	
	4% HNO_3	(2x25 mL)	AC18.06335.0002	140-051-650	★
		125 mL	AC18.06335.0125	140-051-651	
		500 mL	AC18.06335.0500	140-051-655	
	2 to 5% HNO_3	100 mL	AC18.01128.0100	CL01.2022.0100	
		500 mL	AC18.01128.0500	CL01.2022.0500	

Single-Element Calibration Standards - 1000 µg/mL					
Thallium, Tl	3% HNO_3	100 mL	AC18.00111.0100	03159.0000	✦
		250 mL	AC18.00111.0250	03159.1000	
		500 mL	AC18.00111.0500	03159.2000	
	4% HNO_3	(2x25 mL)	AC18.01319.0002	140-051-810	★
		125 mL	AC18.01319.0125	140-051-811	
		500 mL	AC18.01319.0500	140-051-815	
	2 to 5% HNO_3	100 mL	AC18.01131.0100	CL01.2031.0100	
		500 mL	AC18.01131.0500	CL01.2031.0500	
Thorium, Th	10% HNO_3	100 mL	AC18.00208.0100	03741.0000	✦
		250 mL	AC18.00208.0250	03741.1000	
		500 mL	AC18.00208.0500	03741.2000	
	4% HNO_3	(2x25 mL)	AC18.06342.0002	140-051-900	★
		125 mL	AC18.06342.0125	140-051-901	
		500 mL	AC18.06342.0500	140-051-905	
	10% HNO_3	100 mL	AC18.01136.0100	CL01.2041.0100	
		500 mL	AC18.01136.0500	CL01.2041.0500	
Thulium, Tm	3% HNO_3	100 mL	AC18.00216.0100	03763.0000	✦
		250 mL	AC18.00216.0250	03763.1000	
		500 mL	AC18.00216.0500	03763.2000	
	4% HNO_3	(2x25 mL)	AC18.05737.0025	140-051-690	★
	2 to 5% HNO_3	100 mL	AC18.01144.0100	CL01.2062.0100	
		500 mL	AC18.01144.0500	CL01.2062.0500	
Tin, Sn	17% HCl	100 mL	AC18.00150.0100	03581.0000	✦
		250 mL	AC18.00150.0250	03581.1000	
		500 mL	AC18.00150.0500	03581.2000	
	20% HCl	(2x25 mL)	AC18.01327.0002	140-052-500	★
		125 mL	AC18.01327.0125	140-052-501	
		500 mL	AC18.01327.0500	140-052-505	
	1% HF & 2% HNO_3	100 mL	AC18.01143.0100	CL01.2061.0100	
		500 mL	AC18.01143.0500	CL01.2061.0500	
	10 to 20% HCl	100 mL	AC18.01140.0100	CL01.2051.0100	
		500 mL	AC18.01140.0500	CL01.2051.0500	

★ ISO 17034
✦ ISO 17025
▲ Analytical Standard

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Single-Element Calibration Standards - 1000 µg/mL

Titanium, Ti	6% HNO_3 + traces HF	100 mL	AC18.00268.0100	03941.0000	✦
		250 mL	AC18.00268.0250	03941.1000	
		500 mL	AC18.00268.0500	03941.2000	
	H_2O/tr.F-	(2x25 mL)	AC18.01259.0002	140-050-220	★
		125 mL	AC18.01259.0125	140-050-221	
		500 mL	AC18.01259.0500	140-050-225	
	10 to 20% HCl	100 mL	AC18.01149.0100	CL01.2071.0100	
		500 mL	AC18.01149.0500	CL01.2071.0500	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.01150.0100	CL01.2072.0100	
		500 mL	AC18.01150.0500	CL01.2072.0500	
	5% HF	100 mL	AC18.01153.0100	CL01.2075.0100	
		500 mL	AC18.01153.0500	CL01.2075.0500	
	H_2O	100 mL	AC18.01225.0100	CL01.4601.0100	
		500 mL	AC18.01225.0500	CL01.4601.0500	
Tungsten, W	6% HNO_3 + 2% HF	100 mL	AC18.00209.0100	03742.0000	✦
		250 mL	AC18.00209.0250	03742.1000	
		500 mL	AC18.00209.0500	03742.2000	
	H_2O	(2x25 mL)	AC18.01264.0002	140-050-740	★
		125 mL	AC18.01264.0125	140-050-741	
		500 mL	AC18.01264.0500	140-050-745	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.01169.0100	CL01.2301.0100	
		500 mL	AC18.01169.0500	CL01.2301.0500	
	2% NH_4OH	100 mL	AC18.01176.0100	CL01.2331.0100	
		500 mL	AC18.01176.0500	CL01.2331.0500	
	5% HF	100 mL	AC18.01172.0100	CL01.2302.0100	
		500 mL	AC18.01172.0500	CL01.2302.0500	
Uranium, U	4% HNO_3	(2x25 mL)	AC18.01325.0002	140-051-920	★
		125 mL	AC18.01325.0125	140-051-921	
		500 mL	AC18.01325.0500	140-051-925	
	2 to 5% HNO_3	100 mL	AC18.00493.0100	21814.0000	▲
		500 mL	AC18.00493.0500	21814.2000	

Single-Element Calibration Standards - 1000 µg/mL					
Vanadium, V	6% HNO_3	100 mL	AC18.00225.0100	03784.0000	✦
		250 mL	AC18.00225.0250	03784.1000	
		500 mL	AC18.00225.0500	03784.2000	
	4% HNO_3	(2x25 mL)	AC18.01279.0002	140-051-230	★
		125 mL	AC18.01279.0125	140-051-231	
		500 mL	AC18.01279.0500	140-051-235	
	2 to 5% HNO_3	100 mL	AC18.01162.0100	CL01.2201.0100	
		500 mL	AC18.01162.0500	CL01.2201.0500	
Ytterbium, Yb	3% HNO_3	100 mL	AC18.00210.0100	03743.0000	✦
		250 mL	AC18.00210.0250	03743.1000	
		500 mL	AC18.00210.0500	03743.2000	
	4% HNO_3	(2x25 mL)	AC18.06340.0002	140-051-700	★
		125 mL	AC18.06340.0125	140-051-701	
		500 mL	AC18.06340.0500	140-051-705	
	2 to 5% HNO_3	100 mL	AC18.01178.0100	CL01.2501.0100	
		500 mL	AC18.01178.0500	CL01.2501.0500	
Yttrium, Y	3% HNO_3	100 mL	AC18.00227.0100	03794.0000	✦
		250 mL	AC18.00227.0250	03794.1000	
		500 mL	AC18.00227.0500	03794.2000	
	5% HNO_3 + traces HF	100 mL	AC18.19461.0100	CL01.13823.0100	
	2 to 5% HNO_3	100 mL	AC18.01180.0100	CL01.2511.0100	★
		500 mL	AC18.01180.0500	CL01.2511.0500	
	4% HNO_3	(2x25 mL)	AC18.01302.0002	140-051-390	
		125 mL	AC18.01302.0125	140-051-391	
		500 mL	AC18.01302.0500	140-051-395	

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Description of the chemical standard

Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

Element concentration level in the matrix

Single-Element Calibration Standards - 1000 µg/mL

Zinc, Zn	3% HNO_3	100 mL	AC18.00252.0100	03849.0000	✦
		250 mL	AC18.00252.0250	03849.1000	
		500 mL	AC18.00252.0500	03849.2000	
	4% HNO_3	(2x25 mL)	AC18.01295.0002	140-051-300	★
		125 mL	AC18.01295.0125	140-051-301	
		500 mL	AC18.01295.0500	140-051-305	
	2 to 5% HCl	100 mL	AC18.01194.0100	CL01.2612.0100	
		500 mL	AC18.01194.0500	CL01.2612.0500	
	2 to 5% HNO_3	100 mL	AC18.01190.0100	CL01.2611.0100	
		500 mL	AC18.01190.0500	CL01.2611.0500	
Zirconium, Zr	7% HCl	100 mL	AC18.00212.0100	03745.0000	✦
		250 mL	AC18.00212.0250	03745.1000	
		500 mL	AC18.00212.0500	03745.2000	
	4% HNO_3	(2x25 mL)	AC18.01303.0002	140-051-400	★
		125 mL	AC18.01303.0125	140-051-401	
		500 mL	AC18.01303.0500	140-051-405	
	2 to 5% HCl	100 mL	AC18.01201.0100	CL01.2632.0100	
		500 mL	AC18.01201.0500	CL01.2632.0500	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.01215.0100	CL01.2672.0100	
		500 mL	AC18.01215.0500	CL01.2672.0500	
	5% HF	100 mL	AC18.01200.0100	CL01.2631.0100	
		500 mL	AC18.01200.0500	CL01.2631.0500	

Single-Element Calibration Standards - 10,000 µg/mL

At the top end of the spectrum, 10,000 µg/mL standards are designed for laboratories that need to prepare large volumes of dilution standards or require matrix-matched solutions for complex samples (e.g., metallurgical digests, geological HF digests, industrial plating baths). Their concentration makes them ideal for custom blends, reducing the amount of acid consumed in dilution.

Why choose 10,000 µg/mL?

- Excellent for matrix matching in complex or high TDS samples
- Reduces acid consumption and dilution volumes
- Ideal for preparing custom calibration sets
- Preferred in high-throughput or high-volume labs

Optimized for high volume labs and matrix matching

Single-Element Calibration Standards - 10000 µg/mL					
Aluminium, Al	1% HCl	(2x25 mL)	AC18.06413.0002	140-062-130	★
		500 mL	AC18.06413.0500	140-062-135	
	2 to 5% HCl	100 mL	AC18.00805.0100	CL01.0104.0100	
		500 mL	AC18.00805.0500	CL01.0104.0500	
	2 to 5% HNO_3	100 mL	AC18.00804.0100	CL01.0103.0100	
		500 mL	AC18.00804.0500	CL01.0103.0500	
	4% HNO_3	(2x25 mL)	AC18.01332.0002	140-061-130	
		125 mL	AC18.01332.0125	140-061-131	
		500 mL	AC18.01332.0500	140-061-135	
	12% HNO_3	100 mL	AC18.00316.0100	10908.0000	✦

Single-Element Calibration Standards - 10000 µg/mL					
Antimony, Sb	10 to 20% HCl	100 mL	AC18.00814.0100	CL01.0123.0100	★
		500 mL	AC18.00814.0500	CL01.0123.0500	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.00815.0100	CL01.0124.0100	
		500 mL	AC18.00815.0500	CL01.0124.0500	
	4% HNO_3	(2x25 mL)	AC18.06390.0002	140-061-510	
		125 mL	AC18.06390.0125	140-061-511	
		500 mL	AC18.06390.0500	140-061-515	
	17% HCl	100 mL	AC18.00366.0100	12943.0000	▲
Arsenic, As	2 to 5% HNO_3	100 mL	AC18.00823.0100	CL01.0134.0100	★
		500 mL	AC18.00823.0500	CL01.0134.0500	
	4% HNO_3	(2x25 mL)	AC18.05781.0025	140-061-330	
		125 mL	AC18.05781.0125	140-061-331	
		500 mL	AC18.05781.0500	140-061-335	
	12% HNO_3	100 mL	AC18.00367.0100	12944.0000	✦
		250 mL	AC18.00367.0250	12944.1000	
Barium, Ba	2 to 5% HCl	100 mL	AC18.14475.0100	CL01.0204.0100	★
		500 mL	AC18.14475.0500	CL01.0204.0500	
	2 to 5% HNO_3	100 mL	AC18.00834.0100	CL01.0203.0100	
		500 mL	AC18.00834.0500	CL01.0203.0500	
	5% HNO_3	(2x25 mL)	AC18.06392.0002	140-061-560	
		125 mL	AC18.06392.0125	140-061-561	
		500 mL	AC18.06392.0500	140-061-565	
	2% HNO_3	100 mL	AC18.00491.0100	21584.0000	✦
Beryllium, Be	2 to 5% HNO_3	100 mL	AC18.00842.0100	CL01.0214.0100	★
		500 mL	AC18.00842.0500	CL01.0214.0500	
	4% HNO_3	(2x25 mL)	AC18.06368.0002	140-061-040	
		125 mL	AC18.06368.0125	140-061-041	
		500 mL	AC18.06368.0500	140-061-045	

Single-Element Calibration Standards - 10000 µg/mL					
	[matrix]				
Bismuth, Bi	2 to 5% HNO_3	100 mL	AC18.00846.0100	CL01.0223.0100	★
		500 mL	AC18.00846.0500	CL01.0223.0500	
	4% HNO_3	(2x25 mL)	AC18.06410.0002	140-061-830	
		125 mL	AC18.06410.0125	140-061-831	
		500 mL	AC18.06410.0500	140-061-835	
	HNO_3 5%	100 mL	AC18.00562.0100	26948.0000	▲
Boron, B	1% NH_3(aq)	100 mL	AC18.00443.0100	18169.0000	✦
	H_2O	100 mL	AC18.00855.0100	CL01.0233.0100	★
		500 mL	AC18.00855.0500	CL01.0233.0500	
		125 mL	AC18.06940.0125	140-060-051	
		500 mL	AC18.06940.0500	140-060-055	
Cadmium, Cd	2 to 5% HNO_3	100 mL	AC18.00861.0100	CL01.0303.0100	★
		500 mL	AC18.00861.0500	CL01.0303.0500	
	4% HNO_3	(2x25 mL)	AC18.06388.0002	140-061-480	
		125 mL	AC18.06388.0125	140-061-481	
		500 mL	AC18.06388.0500	140-061-485	
	12% HNO_3	100 mL	AC18.00378.0100	13257.0000	✦
Caesium, Cs	4% HNO_3	(2x25 mL)	AC18.06391.0002	140-061-550	★
		125 mL	AC18.06391.0125	140-061-551	
		500 mL	AC18.06391.0500	140-061-555	
	2 to 5% HNO_3	100 mL	AC18.00879.0100	CL01.0333.0100	
		500 mL	AC18.00879.0500	CL01.0333.0500	
	5% HNO_3	100 mL	AC18.07292.0100	26971.0000	▲
Calcium oxide, CaO	2 to 5% HNO_3	100 mL	AC18.19695.0100	CL01.0319.0100	★
		500 mL	AC18.19695.0500	CL01.0319.0500	

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Description of the chemical standard

[matrix] Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

[ppm] Element concentration level in the matrix

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Element concentration level in the matrix

Single-Element Calibration Standards - 10000 µg/mL

Calcium, Ca	2 to 5% HNO_3	100 mL	AC18.00868.0100	CL01.0314.0100	★
		500 mL	AC18.00868.0500	CL01.0314.0500	
	4% HNO_3	(2x25 mL)	AC18.01335.0002	140-061-200	
		125 mL	AC18.01335.0125	140-061-201	
		500 mL	AC18.01335.0500	140-061-205	
	2% HCl	100 mL	AC18.00332.0100	11511.0000	✦
	12% HNO_3	100 mL	AC18.00317.0100	10910.0000	
Cerium, Ce	2 to 5% HNO_3	100 mL	AC18.00876.0100	CL01.0323.0100	★
		500 mL	AC18.00876.0500	CL01.0323.0500	
	4% HNO_3	(2x25 mL)	AC18.06394.0002	140-061-580	
		125 mL	AC18.06394.0125	140-061-581	
		500 mL	AC18.06394.0500	140-061-585	
	5% HNO_3	100 mL	AC18.00566.0100	26978.0000	▲
Chromium(III), Cr(III)	4% HNO_3	(2x25 mL)	AC18.06374.0002	140-061-240	★
		125 mL	AC18.06374.0125	140-061-241	
		500 mL	AC18.06374.0500	140-061-245	
Chromium, Cr	2 to 5% HCl	100 mL	AC18.00888.0100	CL01.0363.0100	★
		500 mL	AC18.00888.0500	CL01.0363.0500	
	2 to 5% HNO_3	100 mL	AC18.00889.0100	CL01.0364.0100	
		500 mL	AC18.00889.0500	CL01.0364.0500	
	4% HCl	(2x25 mL)	AC18.06414.0002	140-062-240	
		125 mL	AC18.06414.0125	140-062-241	
		500 mL	AC18.06414.0500	140-062-245	
	12% HNO_3	100 mL	AC18.00427.0100	17018.0000	✦
Cobalt, Co	2 to 5% HCl	100 mL	AC18.00971.0100	CL01.1128.0100	★
	2 to 5% HNO_3	100 mL	AC18.00967.0100	CL01.1123.0100	
		500 mL	AC18.00967.0500	CL01.1123.0500	
	4% HNO_3	(2x25 mL)	AC18.06377.0002	140-061-270	
		125 mL	AC18.06377.0125	140-061-271	
		500 mL	AC18.06377.0500	140-061-275	
	12% HNO_3	100 mL	AC18.00429.0100	17107.0000	✦

Single-Element Calibration Standards - 10000 µg/mL					
Copper, Cu	2 to 5% HNO_3	100 mL	AC18.00976.0100	CL01.1133.0100	★
		500 mL	AC18.00976.0500	CL01.1133.0500	
	4% HNO_3	(2x25 mL)	AC18.06379.0002	140-061-290	
		125 mL	AC18.06379.0125	140-061-291	
		500 mL	AC18.06379.0500	140-061-295	
	12% HNO_3	100 mL	AC18.00375.0100	13124.0000	✦
Dysprosium, Dy	5% HNO_3	100 mL	AC18.07293.0100	26972.0000	▲
	2 to 5% HNO_3	100 mL	AC18.00897.0100	CL01.0433.0100	★
		500 mL	AC18.00897.0500	CL01.0433.0500	
	4% HNO_3	(2x25 mL)	AC18.06401.0002	140-061-660	
		125 mL	AC18.06401.0125	140-061-661	
		500 mL	AC18.06401.0500	140-061-665	
Erbium, Er	2 to 5% HNO_3	100 mL	AC18.00899.0100	CL01.0503.0100	★
		500 mL	AC18.00899.0500	CL01.0503.0500	
	3.9% HNO_3	(2x25 mL)	AC18.06403.0002	140-061-680	
		125 mL	AC18.06403.0125	140-061-681	
		500 mL	AC18.06403.0500	140-061-685	
	5% HNO_3	100 mL	AC18.07294.0100	26973.0000	▲
Europium, Eu	2 to 5% HNO_3	100 mL	AC18.00901.0100	CL01.0513.0100	★
		500 mL	AC18.00901.0500	CL01.0513.0500	
	3.86% HNO_3	(2x25 mL)	AC18.11068.0002	140-061-630	
		125 mL	AC18.11068.0125	140-061-631	
		500 mL	AC18.11068.0500	140-061-635	
	5% HNO_3	100 mL	AC18.07295.0100	26974.0000	▲
Gadolinium, Gd	2 to 5% HNO_3	100 mL	AC18.00914.0100	CL01.0703.0100	★
		500 mL	AC18.00914.0500	CL01.0703.0500	
	3.9% HNO_3	(2x25 mL)	AC18.06399.0002	140-061-640	
		125 mL	AC18.06399.0125	140-061-641	
		500 mL	AC18.06399.0500	140-061-645	
	5% HNO_3	100 mL	AC18.00563.0100	26975.0000	▲

Single-Element Calibration Standards - 10000 µg/mL					
Gallium, Ga	2 to 5% HNO_3 + traces HF	100 mL	AC18.13259.0100	CL01.0713.0100	★
		500 mL	AC18.13259.0500	CL01.0713.0500	
	4% HNO_3	(2x25 mL)	AC18.06380.0002	140-061-310	
		125 mL	AC18.06380.0125	140-061-311	
		500 mL	AC18.06380.0500	140-061-315	
	5% HNO_3 + traces HCl	100 mL	AC18.00564.0100	26976.0000	▲
Germanium, Ge	5% HNO_3 + traces HF	100 mL	AC18.00565.0100	26977.0000	▲
	2 to 5% HNO_3 + traces HF	100 mL	AC18.00924.0100	CL01.0743.0100	★
		500 mL	AC18.00924.0500	CL01.0743.0500	
	H_2O/tr.F-	(2x25 mL)	AC18.06361.0002	140-060-320	
		125 mL	AC18.06361.0125	140-060-321	
		500 mL	AC18.06361.0500	140-060-325	
Gold, Au	10 to 25% HCl	100 mL	AC18.00922.0100	CL01.0733.0100	★
		500 mL	AC18.00922.0500	CL01.0733.0500	
	8.8% HCl	(2x25 mL)	AC18.06423.0002	140-062-790	
		125 mL	AC18.06423.0125	140-062-791	
		500 mL	AC18.06423.0500	140-062-795	
	HCl 10 - 20%	100 mL	AC18.00370.0100	13017.0000	▲
Hafnium, Hf	2 to 5% HCl	100 mL	AC18.00929.0100	CL01.0804.0100	★
		500 mL	AC18.00929.0500	CL01.0804.0500	
	4% HCl	(2x25 mL)	AC18.06420.0002	140-062-720	
		125 mL	AC18.06420.0125	140-062-721	
	5% HF	100 mL	AC18.00928.0100	CL01.0803.0100	
		500 mL	AC18.00928.0500	CL01.0803.0500	
	HCl 5%	100 mL	AC18.06895.0100	18170.0000	▲
Holmium, Ho	2 to 5% HNO_3	100 mL	AC18.00932.0100	CL01.0823.0100	★
		500 mL	AC18.00932.0500	CL01.0823.0500	
	4% HNO_3	(2x25 mL)	AC18.06402.0002	140-061-670	
		125 mL	AC18.06402.0125	140-061-671	
		500 mL	AC18.06402.0500	140-061-675	

Single-Element Calibration Standards - 10000 µg/mL					
	[matrix]				
Indium, In	2 to 5% HNO_3	100 mL	AC18.00948.0100	CL01.0923.0100	★
		500 mL	AC18.00948.0500	CL01.0923.0500	
	2.95% HNO_3	(2x25 mL)	AC18.06389.0002	140-061-490	
		125 mL	AC18.06389.0125	140-061-491	
		500 mL	AC18.06389.0500	140-061-495	
	12% HNO_3	100 mL	AC18.00385.0100	14085.0000	✦
Iridium, Ir	10 to 20% HCl	100 mL	AC18.00952.0100	CL01.0933.0100	★
		500 mL	AC18.00952.0500	CL01.0933.0500	
	10% HCl	(2x25 mL)	AC18.06421.0002	140-062-770	
		125 mL	AC18.06421.0125	140-062-771	
	HCl 20%	100 mL	AC18.07296.0100	26980.0000	▲
Iron, Fe	2 to 5% HCl	100 mL	AC18.00940.0100	CL01.0904.0100	★
		500 mL	AC18.00940.0500	CL01.0904.0500	
	2 to 5% HNO_3	100 mL	AC18.00939.0100	CL01.0903.0100	
		500 mL	AC18.00939.0500	CL01.0903.0500	
	6% HNO_3	(2x25 mL)	AC18.06376.0002	140-061-260	
		125 mL	AC18.06376.0125	140-061-261	
		500 mL	AC18.06376.0500	140-061-265	
	12% HNO_3	100 mL	AC18.00318.0100	10911.0000	✦
Lanthanum, La	2 to 5% HNO_3	100 mL	AC18.00991.0100	CL01.1203.0100	★
		500 mL	AC18.00991.0500	CL01.1203.0500	
	4% HNO_3	(2x25 mL)	AC18.06393.0002	140-061-570	
		125 mL	AC18.06393.0125	140-061-571	
		500 mL	AC18.06393.0500	140-061-575	
	5% HNO_3	100 mL	AC18.00444.0100	18171.0000	▲
Lead, Pb	2 to 5% HNO_3	100 mL	AC18.01002.0100	CL01.1223.0100	★
		500 mL	AC18.01002.0500	CL01.1223.0500	
	4% HNO_3	(2x25 mL)	AC18.06409.0002	140-061-820	
		125 mL	AC18.06409.0125	140-061-821	
		500 mL	AC18.06409.0500	140-061-825	
	12% HNO_3	100 mL	AC18.00362.0100	12904.0000	✦

★ ISO 17034

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Description of the chemical standard

[matrix] Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

[ppm] Element concentration level in the matrix

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Element concentration level in the matrix

Single-Element Calibration Standards - 10000 µg/mL

Lithium, Li	0.61% HNO_3	(2x25 mL)	AC18.06367.0002	140-061-030	★
		125 mL	AC18.06367.0125	140-061-031	
		500 mL	AC18.06367.0500	140-061-035	
	2 to 5% HNO_3	100 mL	AC18.00996.0100	CL01.1214.0100	
		500 mL	AC18.00996.0500	CL01.1214.0500	
	5% HNO_3	100 mL	AC18.00480.0100	21172.0000	▲
Lutetium, Lu	2 to 5% HNO_3	100 mL	AC18.01007.0100	CL01.1233.0100	★
		500 mL	AC18.01007.0500	CL01.1233.0500	
	4% HNO_3	500 mL	AC18.06406.0500	140-061-715	
	HNO_3 5%	100 mL	AC18.00567.0100	26981.0000	▲
Magnesium oxide, MgO	2 to 5% HNO_3	100 mL	AC18.14500.0100	CL01.1309.0100	★
		500 mL	AC18.14500.0500	CL01.1309.0500	
Magnesium, Mg	2 to 5% HCl	100 mL	AC18.13269.0100	CL01.1310.0100	★
	2 to 5% HNO_3	100 mL	AC18.01013.0100	CL01.1304.0100	
		500 mL	AC18.01013.0500	CL01.1304.0500	
	7% HNO_3	(2x25 mL)	AC18.06370.0002	140-061-120	
		125 mL	AC18.06370.0125	140-061-121	
		500 mL	AC18.06370.0500	140-061-125	
	12% HNO_3	100 mL	AC18.00298.0100	05957.0000	✦
Manganese, Mn	2 to 5% HNO_3	100 mL	AC18.01020.0100	CL01.1313.0100	★
		500 mL	AC18.01020.0500	CL01.1313.0500	
	4% HNO_3	(2x25 mL)	AC18.06375.0002	140-061-250	
		125 mL	AC18.06375.0125	140-061-251	
		500 mL	AC18.06375.0500	140-061-255	
	12% HNO_3	100 mL	AC18.00442.0100	18020.0000	▲
Mercury, Hg	10% HNO_3	(2x25 mL)	AC18.06407.0002	140-061-800	★
		125 mL	AC18.06407.0125	140-061-801	
		500 mL	AC18.06407.0500	140-061-805	
	2 to 5% HNO_3	100 mL	AC18.00985.0100	CL01.1153.0100	
		500 mL	AC18.00985.0500	CL01.1153.0500	
	6% HNO_3	100 mL	AC18.00451.0100	18313.0000	▲

Single-Element Calibration Standards - 10000 µg/mL					
Molybdenum, Mo	2 to 5% HNO_3 + traces HF	100 mL	AC18.01028.0100	CL01.1333.0100	★
		500 mL	AC18.01028.0500	CL01.1333.0500	
	2% NH_4OH	100 mL	AC18.01029.0100	CL01.1334.0100	
		500 mL	AC18.01029.0500	CL01.1334.0500	
	H_2O	(2x25 mL)	AC18.06364.0002	140-060-420	
		125 mL	AC18.06364.0125	140-060-421	
		500 mL	AC18.06364.0500	140-060-425	
	6% HNO_3 + traces HF	100 mL	AC18.00430.0100	17108.0000	▲
Neodymium, Nd	2 to 5% HNO_3	100 mL	AC18.01044.0100	CL01.1413.0100	★
		500 mL	AC18.01044.0500	CL01.1413.0500	
	3.8% HNO_3	(2x25 mL)	AC18.06396.0002	140-061-600	
		125 mL	AC18.06396.0125	140-061-601	
		500 mL	AC18.06396.0500	140-061-605	
	HNO_3 5%	100 mL	AC18.07297.0100	26982.0000	▲
Nickel, Ni	2 to 5% HCl	100 mL	AC18.01054.0100	CL01.1428.0100	★
	2 to 5% HNO_3	100 mL	AC18.01050.0100	CL01.1423.0100	
		500 mL	AC18.01050.0500	CL01.1423.0500	
	3.64% HNO_3	(2x25 mL)	AC18.06378.0002	140-061-280	
		125 mL	AC18.06378.0125	140-061-281	
		500 mL	AC18.06378.0500	140-061-285	
	12% HNO_3	100 mL	AC18.00363.0100	12939.0000	✦
Niobium, Nb	5% HF	100 mL	AC18.01057.0100	CL01.1433.0100	★
		500 mL	AC18.01057.0500	CL01.1433.0500	
	1% HF	(2x25 mL)	AC18.06363.0002	140-060-410	
		125 mL	AC18.06363.0125	140-060-411	
		500 mL	AC18.06363.0500	140-060-415	
	HF 2-5%	100 mL	AC18.00445.0100	18172.0000	▲

Single-Element Calibration Standards - 10000 µg/mL					
Palladium, Pd	10 to 20% HCl	100 mL	AC18.01066.0100	CL01.1603.0100	★
		500 mL	AC18.01066.0500	CL01.1603.0500	
	11.4% HCl	(2x25 mL)	AC18.06416.0002	140-062-460	
		125 mL	AC18.06416.0125	140-062-461	
		500 mL	AC18.06416.0500	140-062-465	
	12% HNO_3	100 mL	AC18.00372.0100	13076.0000	✦
Phosphorus pentoxide, P_4O_{10}	H_2O	100 mL	AC18.19585.0100	CL01.0629.0100	★
		500 mL	AC18.19585.0500	CL01.0629.0500	
Phosphorus, P	2 to 5% HNO_3	100 mL	AC18.03060.0100	CL01.0643.0100	★
		500 mL	AC18.03060.0500	CL01.0643.0500	
	H_2O/tr.F-	(2x25 mL)	AC18.05757.0025	140-060-150	
	H_2O	100 mL	AC18.00408.0100	15560.0000	✦
		125 mL	AC18.06358.0125	140-060-151	
		500 mL	AC18.06358.0500	140-060-155	
		100 mL	AC18.03056.0100	CL01.0634.0100	
		100 mL	AC18.03055.0100	CL01.0633.0100	
		500 mL	AC18.03056.0500	CL01.0634.0500	
		500 mL	AC18.03055.0500	CL01.0633.0500	
Platinum, Pt	10 to 20% HCl	100 mL	AC18.01070.0100	CL01.1613.0100	★
		500 mL	AC18.01070.0500	CL01.1613.0500	
	10% HCl	125 mL	AC18.06422.0125	140-062-781	
	HCl 20%	100 mL	AC18.00568.0100	26983.0000	▲
Potassium oxide, K_2O	2 to 5% HNO_3	100 mL	AC18.19819.0100	CL01.1109.0100	★
		500 mL	AC18.19819.0500	CL01.1109.0500	
Potassium, K	2 to 5% HNO_3	100 mL	AC18.00958.0100	CL01.1104.0100	
		500 mL	AC18.00958.0500	CL01.1104.0500	
	4% HNO_3	(2x25 mL)	AC18.01333.0002	140-061-190	
		125 mL	AC18.01333.0125	140-061-191	
		500 mL	AC18.01333.0500	140-061-195	
	H_2O	100 mL	AC18.00418.0100	16319.0000	✦
	12% HNO_3	100 mL	AC18.00319.0100	10912.0000	

Single-Element Calibration Standards - 10000 µg/mL					
	[matrix]				
Praseodymium, Pr	2 to 5% HNO_3	100 mL	AC18.01072.0100	CL01.1623.0100	★
		500 mL	AC18.01072.0500	CL01.1623.0500	
	3.7% HNO_3	(2x25 mL)	AC18.06395.0002	140-061-590	
		125 mL	AC18.06395.0125	140-061-591	
		500 mL	AC18.06395.0500	140-061-595	
	HNO_3 5%	100 mL	AC18.07298.0100	26984.0000	▲
Rhenium, Re	2 to 5% HNO_3	100 mL	AC18.01076.0100	CL01.1804.0100	★
		500 mL	AC18.01076.0500	CL01.1804.0500	
	H_2O	(2x25 mL)	AC18.06366.0002	140-060-750	
		125 mL	AC18.06366.0125	140-060-751	
		500 mL	AC18.06366.0500	140-060-755	
Rhodium, Rh	10 to 20% HCl	100 mL	AC18.01079.0100	CL01.1813.0100	★
		500 mL	AC18.01079.0500	CL01.1813.0500	
	10% HCl	(2x25 mL)	AC18.05815.0025	140-062-450	
		125 mL	AC18.05815.0125	140-062-451	
		500 mL	AC18.05815.0500	140-062-455	
	HCl 10 - 20%	100 mL	AC18.00481.0100	213270000	✦
Rubidium, Rb	2 to 5% HNO_3	100 mL	AC18.01081.0100	CL01.1824.0100	★
		500 mL	AC18.01081.0500	CL01.1824.0500	
	4% HNO_3	(2x25 mL)	AC18.06383.0002	140-061-370	
		125 mL	AC18.06383.0125	140-061-371	
		500 mL	AC18.06383.0500	140-061-375	
	HNO_3 5%	100 mL	AC18.07299.0100	26985.0000	▲
Ruthenium, Ru	10 to 20% HCl	100 mL	AC18.01084.0100	CL01.1834.0100	★
		500 mL	AC18.01084.0500	CL01.1834.0500	
	8.9% HCl	(2x25 mL)	AC18.06415.0002	140-062-440	
		125 mL	AC18.06415.0125	140-062-441	
		500 mL	AC18.06415.0500	140-062-445	
	HCl 10 - 20%	100 mL	AC18.00569.0100	269860000	▲

★ ISO 17034

✦ ISO 17025

▲ Analytical Standard

Calibration & Verification Standards

Quality Control & Performance Check Standards

Instrument Performance & Tuning Solutions

Regulatory Methods

Environmental Water Standards

Internal & Interference Correction Standard

Description of the chemical standard

[matrix] Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

[ppm] Element concentration level in the matrix

ISO 17034

ISO 17025

Analytical Standard

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Element concentration level in the matrix

Single-Element Calibration Standards - 10000 µg/mL

Samarium, Sm	2 to 5% HNO_3	100 mL	AC18.01086.0100	CL01.1903.0100	★
		500 mL	AC18.01086.0500	CL01.1903.0500	
	4% HNO_3	(2x25 mL)	AC18.06397.0002	140-061-620	
		125 mL	AC18.06397.0125	140-061-621	
		500 mL	AC18.06397.0500	140-061-625	
	HNO_3 5%	100 mL	AC18.07301.0100	26987.0000	▲
Scandium, Sc	2 to 5% HNO_3	100 mL	AC18.01090.0100	CL01.1913.0100	★
		500 mL	AC18.01090.0500	CL01.1913.0500	
	4% HCl	(2x25 mL)	AC18.06373.0002	140-061-210	
		125 mL	AC18.06373.0125	140-061-211	
		500 mL	AC18.06373.0500	140-061-215	
	12% HNO_3	100 mL	AC18.00380.0100	13655.0000	✦
Selenium, Se	2 to 5% HNO_3	100 mL	AC18.01095.0100	CL01.1923.0100	★
		500 mL	AC18.01095.0500	CL01.1923.0500	
	3.6% HNO_3	(2x25 mL)	AC18.05782.0025	140-061-340	
		125 mL	AC18.05782.0125	140-061-341	
		500 mL	AC18.05782.0500	140-061-345	
	12% HNO_3	100 mL	AC18.00365.0100	12941.0000	✦
Silicon, Si	2 to 5% HNO_3 + traces HF	100 mL	AC18.01104.0100	CL01.1934.0100	★
		500 mL	AC18.01104.0500	CL01.1934.0500	
	5% HF	100 mL	AC18.01107.0100	CL01.1943.0100	
		500 mL	AC18.01107.0500	CL01.1943.0500	
	H_2O + traces of F-	125 mL	AC18.06357.0125	140-060-141	
		500 mL	AC18.06357.0500	140-060-145	
		(2x25 mL)	AC18.05756.0025	140-060-140	
	H_2O + traces of F-	100 mL	AC18.00492.0100	21662.0000	▲

Single-Element Calibration Standards - 10000 µg/mL					
Silver, Ag	2 to 5% HNO_3	100 mL	AC18.01187.0100	CL01.2603.0100	★
		500 mL	AC18.01187.0500	CL01.2603.0500	
	4% HNO_3	(2x25 mL)	AC18.05787.0025	140-061-470	
		125 mL	AC18.05787.0125	140-061-471	
		500 mL	AC18.05787.0500	140-061-475	
	HNO_3 5%	100 mL	AC18.13126.0100	26988.0700	✦
Sodium, Na	2 to 5% HCl	100 mL	AC18.01038.0100	CL01.1404.0100	★
		500 mL	AC18.01038.0500	CL01.1404.0500	
	2 to 5% HNO_3	100 mL	AC18.20388.0100	CL01.1409.0100	
		500 mL	AC18.20388.0500	CL01.1409.0500	
	4% HNO_3	(2x25 mL)	AC18.01331.0002	140-061-110	
		125 mL	AC18.01331.0125	140-061-111	
		500 mL	AC18.01331.0500	140-061-115	
	12% HNO_3	100 mL	AC18.00320.0100	10913.0000	✦
Strontium, Sr	2 to 5% HNO_3	100 mL	AC18.01112.0100	CL01.1963.0100	★
		500 mL	AC18.01112.0500	CL01.1963.0500	
	2.7% HNO_3	(2x25 mL)	AC18.06384.0002	140-061-380	
		125 mL	AC18.06384.0125	140-061-381	
		500 mL	AC18.06384.0500	140-061-385	
	6% HNO_3	100 mL	AC18.00431.0100	17110.0000	✦
Sulfate, (SO_4)-2	H_2O	100 mL	AC18.00416.0100	16190.0000	✦
Sulfur, S	H_2O	(2x25 mL)	AC18.01330.0002	140-060-160	★
		125 mL	AC18.01330.0125	140-060-161	
		500 mL	AC18.01330.0500	140-060-165	
		100 mL	AC18.01212.0100	CL01.2644.0100	
		100 mL	AC18.01211.0100	CL01.2643.0100	
		500 mL	AC18.01212.0500	CL01.2644.0500	
		500 mL	AC18.01211.0500	CL01.2643.0500	
	12% HNO_3	100 mL	AC18.00382.0100	13741.0000	✦

Single-Element Calibration Standards - 10000 µg/mL					
Tantalum, Ta	2 to 5% HNO_3 + traces HF	100 mL	AC18.01118.0100	CL01.2004.0100	★
		500 mL	AC18.01118.0500	CL01.2004.0500	
	5% HF	100 mL	AC18.01117.0100	CL01.2003.0100	
		500 mL	AC18.01117.0500	CL01.2003.0500	
	4% HF/ 1% HNO_3	(2x25 mL)	AC18.06365.0002	140-060-730	
		125 mL	AC18.06365.0125	140-060-731	
		500 mL	AC18.06365.0500	140-060-735	
	HF 5%	100 mL	AC18.07304.0100	26989.0000	▲
Tellurium, Te	10 to 20% HCl	100 mL	AC18.01125.0100	CL01.2015.0100	★
		500 mL	AC18.01125.0500	CL01.2015.0500	
	2 to 5% HNO_3 + traces HF	100 mL	AC18.01124.0100	CL01.2014.0100	
		500 mL	AC18.01124.0500	CL01.2014.0500	
	40% HCl	(2x25 mL)	AC18.05818.0025	140-062-520	
		125 mL	AC18.05818.0125	140-062-521	
	23% HNO_3	100 mL	AC18.00465.0100	20026.0000	✦
Terbium, Tb	2 to 5% HNO_3	100 mL	AC18.01130.0100	CL01.2023.0100	★
		500 mL	AC18.01130.0500	CL01.2023.0500	
	4% HNO_3	(2x25 mL)	AC18.06400.0002	140-061-650	
		125 mL	AC18.06400.0125	140-061-651	
		500 mL	AC18.06400.0500	140-061-655	
	HNO_3 5%	100 mL	AC18.07307.0100	26990.0000	▲
Thallium, Tl	2 to 5% HNO_3	500 mL	AC18.01134.0500	CL01.2033.0500	★
		100 mL	AC18.01134.0100	CL01.2033.0100	
	4% HNO_3	(2x25 mL)	AC18.05807.0025	140-061-810	
		125 mL	AC18.05807.0125	140-061-811	
		500 mL	AC18.05807.0500	140-061-815	
	HNO_3 5%	100 mL	AC18.09972.0100	26991.0000	▲

Single-Element Calibration Standards - 10000 µg/mL					
	[matrix]				
Thorium, Th	10% HNO_3	500 mL	AC18.01139.0500	CL01.2043.0500	★
		100 mL	AC18.01139.0100	CL01.2043.0100	
	4% HNO_3	(2x25 mL)	AC18.06411.0002	140-061-900	
		125 mL	AC18.06411.0125	140-061-901	
		500 mL	AC18.06411.0500	140-061-905	
Thulium, Tm	2 to 5% HNO_3	500 mL	AC18.01142.0500	CL01.2053.0500	★
		100 mL	AC18.01142.0100	CL01.2053.0100	
	5% HNO_3	(2x25 mL)	AC18.06404.0002	140-061-690	
		125 mL	AC18.06404.0125	140-061-691	
		500 mL	AC18.06404.0500	140-061-695	
Tin, Sn	10 to 20% HCl	500 mL	AC18.01147.0500	CL01.2063.0500	★
		100 mL	AC18.01147.0100	CL01.2063.0100	
	15.5% HCl	(2x25 mL)	AC18.06417.0002	140-062-500	
		125 mL	AC18.06417.0125	140-062-501	
		500 mL	AC18.06417.0500	140-062-505	
	17% HCl	100 mL	AC18.00374.0100	13123.0000	✦
Titanium, Ti	0.5% HNO_3 + traces HF	100 mL	AC18.00407.0100	15402.0000	▲
	10 to 20% HCl	500 mL	AC18.01151.0500	CL01.2073.0500	★
		100 mL	AC18.01151.0100	CL01.2073.0100	
	2 to 5% HNO_3 + traces HF	500 mL	AC18.01152.0500	CL01.2074.0500	
		100 mL	AC18.01152.0100	CL01.2074.0100	
	H_2O / 2.4% F-	(2x25 mL)	AC18.06360.0002	140-060-220	
		125 mL	AC18.06360.0125	140-060-221	
		500 mL	AC18.06360.0500	140-060-225	
Tungsten, W	2 to 5% HNO_3 + traces HF	500 mL	AC18.01177.0500	CL01.2333.0500	★
		100 mL	AC18.01177.0100	CL01.2333.0100	
	2% NH_4OH	500 mL	AC18.14546.0500	CL01.2303.0500	
		100 mL	AC18.14546.0100	CL01.2303.0100	
	5% HF	500 mL	AC18.01173.0500	CL01.2304.0500	
		100 mL	AC18.01173.0100	CL01.2304.0100	
	5% HNO_3 + traces HF	100 mL	AC18.00447.0100	18174.0000	▲

★ ISO 17034
✦ ISO 17025
▲ Analytical Standard

Calibration & Verification Standards
Quality Control & Performance Check Standards
Instrument Performance & Tuning Solutions
Regulatory Methods
Environmental Water Standards
Internal & Interference Correction Standard

Description of the chemical standard
[matrix] Matrix – The solution base or solvent used
Compliance status with relevant ISO standards
Functional categories (Multi-Element Standards)
Volume or quantity supplied
Legacy Item Number
Current product identification code
Count of elements included in the standard
Specific element(s) present in the solution
Composition
[ppm] Element concentration level in the matrix

ISO 17034

ISO 17025

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Element concentration level in the matrix

Single-Element Calibration Standards - 10000 µg/mL

Uranium, U	4% HNO_3	(2x25 mL)	AC18.06412.0002	140-061-920	★
		125 mL	AC18.06412.0125	140-061-921	
		500 mL	AC18.06412.0500	140-061-925	
Vanadium, V	15% HNO_3	(2x25 mL)	AC18.01336.0002	140-061-230	★
		125 mL	AC18.01336.0125	140-061-231	
		500 mL	AC18.01336.0500	140-061-235	
	2 to 5% HNO_3	500 mL	AC18.01165.0500	CL01.2203.0500	
		100 mL	AC18.01165.0100	CL01.2203.0100	
	6% HNO_3	100 mL	AC18.00364.0100	12940.0000	▲
Ytterbium, Yb	2 to 5% HNO_3	500 mL	AC18.01179.0500	CL01.2503.0500	★
		100 mL	AC18.01179.0100	CL01.2503.0100	
	4% HNO_3	(2x25 mL)	AC18.06405.0002	140-061-700	
		125 mL	AC18.06405.0125	140-061-701	
		500 mL	AC18.06405.0500	140-061-705	
	HNO_3 5%	100 mL	AC18.00570.0100	26992.0000	▲
Yttrium, Y	2 to 5% HNO_3	500 mL	AC18.01182.0500	CL01.2513.0500	★
		100 mL	AC18.01182.0100	CL01.2513.0100	
	4% HNO_3	(2x25 mL)	AC18.06385.0002	140-061-390	
		125 mL	AC18.06385.0125	140-061-391	
		500 mL	AC18.06385.0500	140-061-395	
	12% HNO_3	100 mL	AC18.00446.0100	18173.0000	✦
Zinc, Zn	2 to 5% HCl	500 mL	AC18.01196.0500	CL01.2614.0500	★
		100 mL	AC18.01196.0100	CL01.2614.0100	
	2 to 5% HNO_3	500 mL	AC18.01195.0500	CL01.2613.0500	
		100 mL	AC18.01195.0100	CL01.2613.0100	
	4% HNO_3	(2x25 mL)	AC18.01337.0002	140-061-300	
		125 mL	AC18.01337.0125	140-061-301	
		500 mL	AC18.01337.0500	140-061-305	
	12% HNO_3	100 mL	AC18.00361.0100	12903.0000	✦

Single-Element Calibration Standards - 10000 µg/mL					
	2 to 5% HCl	500 mL	AC18.01202.0500	CL01.2633.0500	★
		100 mL	AC18.01202.0100	CL01.2633.0100	
	5% HNO_3	(2x25 mL)	AC18.06386.0002	140-061-400	
Zirconium, Zr		125 mL	AC18.06386.0125	140-061-401	
		500 mL	AC18.06386.0500	140-061-405	
	3.5% HCl	100 mL	AC18.00379.0100	13651.0000	▲

Single-Element Calibration Standards - 50,000 µg/mL

For maximum flexibility and large-scale dilution workflows

While 10,000 µg/mL standards serve most high-volume laboratories, certain industrial, metallurgical, mining, and materials science workflows benefit from even higher strength stocks. 50,000 µg/mL single element standards offer unmatched efficiency when preparing large dilution series, custom blends, or high matrix working standards.

These ultra concentrated solutions significantly reduce dilution time, minimize acid use, and provide an economical foundation for producing large batches of routine calibration solutions. Their high analyte content also makes them ideal for laboratories managing heavy matrix samples or processes where the target concentrations exceed the typical working ranges of ICP OES and ICP MS.

Why choose 50,000 µg/mL?

- Ideal for large scale dilution workflows (high throughput environmental & industrial labs)
- Enables cost effective preparation of hundreds of routine calibration solutions
- Minimizes acid volumes required during dilution
- Preferred for custom blends, especially in complex matrices
- Suitable for metallurgical digests, plating baths, mining leachates, and high TDS samples
- Reduces packaging waste and storage space by replacing multiple lower concentration bottles

Single-Element Calibration Standards - 50000 µg/mL

Calcium, Ca	4% HNO_3	(2x25 mL)	AC18.06304.0002	140-041-200	★
		125 mL	AC18.06304.0125	140-041-201	
		500 mL	AC18.06304.0500	140-041-205	
Copper, Cu	4% HNO_3	125 mL	AC18.06308.0125	140-041-291	★
		500 mL	AC18.06308.0500	140-041-295	
Iron, Fe	6% HNO_3	125 mL	AC18.06306.0125	140-041-261	★
		500 mL	AC18.06306.0500	140-041-265	

Single-Element Calibration Standards - 50000 µg/mL					
	[ ]				
Magnesium, Mg	7% HNO_3	(2x25 mL)	AC18.06302.0002	140-041-120	★
		125 mL	AC18.06302.0125	140-041-121	
		500 mL	AC18.06302.0500	140-041-125	
Manganese, Mn	4% HNO_3	500 mL	AC18.06868.0500	140-041-255	★
Phosphorus, P	H_2O	(2x25 mL)	AC18.11093.0002	140-040-150	★
		125 mL	AC18.11093.0125	140-040-151	
		500 mL	AC18.11093.0500	140-040-155	
Potassium, K	4% HNO_3	(2x25 mL)	AC18.06303.0002	140-041-190	★
		125 mL	AC18.06303.0125	140-041-191	
		500 mL	AC18.06303.0500	140-041-195	
Sodium, Na	4% HNO_3	(2x25 mL)	AC18.06301.0002	140-041-110	★
		125 mL	AC18.06301.0125	140-041-111	
		500 mL	AC18.06301.0500	140-041-115	
Sulfur, S	4% HNO_3	125 mL	AC18.06300.0125	140-040-161	★
Titanium, Ti	15% HNO_3 + tr.HF	(2x25 mL)	AC18.07660.0002	140-043-220	★
		125 mL	AC18.07660.0125	140-043-221	
		500 mL	AC18.07660.0500	140-043-225	

★ ISO 17034

✦ ISO 17025

▲ Analytical Standard

Calibration & Verification Standards

Quality Control & Performance Check Standards

Instrument Performance & Tuning Solutions

Regulatory Methods

Environmental Water Standards

Internal & Interference Correction Standard

Description of the chemical standard

[ ] Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

[ppm] Element concentration level in the matrix

Multi Element ICP-OES / ICP-MS



Multi-Element ICP-OES / ICP-MS Standards

Multi element standards play a central role in modern ICP OES and ICP MS workflows, offering laboratories a practical and efficient way to streamline calibration, verification, quality control, and instrument performance checks. With hundreds of blends available across a wide range of matrices, concentrations, and elemental combinations, our portfolio is designed to support an equally wide range of analytical requirements, from routine environmental testing to high precision instrumental tuning.

To make navigation easier, this brochure groups our multi element products into six functional categories. These categories reflect the most common applications and industry practices, helping users quickly locate the solutions typically suited to their method or analytical objective:

Calibration & Verification Standards	**Regulatory Methods**	**Quality Control & Performance Check Standards**	**Environmental Water Standards**	**Instrument Performance & Tuning Solutions**	**Internal & Interference Correction Standards**

This structure is intended as a practical guide, not a limitation. Many of our multi element blends are versatile and can be used across multiple workflows, techniques, and regulatory contexts. Customers remain free to select any product that aligns with their method requirements, laboratory SOPs, or desired calibration strategy—regardless of the category in which it appears.

Product descriptions provided in this catalog are intended solely for commercial and informational purposes. Actual product specifications, concentrations, and labeling details may vary. In all cases, the information displayed on the product label and certificate of analysis (CoA) shall be considered the authoritative and most current version."

Behind this broad offering is the strength of our global manufacturing network. With three accredited production sites, decades of experience, and a proven track record in producing complex multi element formulations, we ensure the highest levels of accuracy, stability, and traceability. For laboratories requiring a specific blend not listed in the catalogue, we offer robust custom manufacturing capabilities, enabling tailored solutions in terms of matrix, concentration, and elemental composition.

We also understand the importance of supply continuity. Through multiple manufacturing locations and the availability of distinct lot numbers, we provide built in second source assurance, ensuring consistent access to the standards you rely on, wherever you operate.

This combination of choice, flexibility, and manufacturing reliability ensures that our multi element standards can support any workflow with confidence, regardless of complexity or scale.

Multi-Element: From 2 To 5 Elements

	[ ]								[ppm]
Multi-Element Tuning CRM (2E)	0.0003% HNO_3 + 1% HCl	★	↖	125 mL 250 mL 500 mL	140-130-461 140-130-462 140-130-465	AC18.07494.0125 AC18.07494.0250 AC18.07494.0500	2	Ce Co	0.001 0.01
Multi-Element Tuning CRM (2E)	5% HNO_3	★	↖	100 mL 500 mL	140-122-011 140-122-015	AC18.06801.0100 AC18.06801.0500	2	Cu, Pb	1
Multi-Element Calibration CRM (2E)	5% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-101-031 140-101-032 140-101-035	AC18.06163.0125 AC18.06163.0250 AC18.06163.0500	2	As Mo	500 100
EPA 200.11 Multi-Element RM (2E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13852.0100 CL01.13852.0500	AC18.20368.0100 AC18.20368.0500	2	As Cr	100 50
EPA 6010 Multi-Element Calibration RM (2E)	5% HNO_3 + traces HF	✦	≔	100 mL 500 mL	CL01.13803.0100 CL01.13803.0500	AC18.20344.0100 AC18.20344.0500	2	As Mo	500 100
EPA 200.7 Multi-Element RM (2E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13724.0100 CL01.13724.0500	AC18.20327.0100 AC18.20327.0500	2	Cu, Pb	10
Multi-Element Screening RM (2E)	2 to 5% HNO_3	✦	↖	100 mL 500 mL	CL01.13633.0100 CL01.13633.0500	AC18.02466.0100 AC18.02466.0500	2	Ag, Hg	10
Multi-Element CRM (2E)	1% HNO_3	★	⊹	125 mL	600-093-901	AC18.23338.0125	2	Ag, Ba	10
EPA 200.8 Multi-Element Calibration CRM (2E)	1% HNO_3 + tr. HF	★	≔	(2x25 mL)	AQ0-080-350	AC18.23350.0002	2	Mo, Sb	20
Multi-Element Interference Check CRM (3E)	5% HNO_3	★	☑	125 mL 500 mL	140-124-031 140-124-035	AC18.06220.0125 AC18.06803.0500	3	Al Fe Ni	300 1511 200
Multi-Element TCLP CRM (3E)	2% HNO_3	★	≔	125 mL 250 mL 500 mL	140-112-031 140-112-032 140-112-035	AC18.11822.0125 AC18.11822.0250 AC18.11822.0500	3	As, Pb Se	25 5
Multi-Element Trace Metals RM (3E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13842.0100 CL01.13842.0500	AC18.20362.0100 AC18.20362.0500	3	Ag Sb, Tl	10 20
Multi-Element UV CRM (3E)	2% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-128-121 140-128-122 140-128-125	AC18.11846.0125 AC18.11846.0250 AC18.11846.0500	3	Al, P, S	10
Multi-Element Trace Metals CRM (3E)	2% HNO_3	★	⊹ ≔ ≋	125 mL 250 mL 500 mL	140-106-021 140-106-022 140-106-025	AC18.06179.0125 AC18.06179.0250 AC18.06179.0500	3	Ag Sb, Tl	10 20
Multi-Element CRM (3E)	5% HNO_3	★	⊹	500 mL	140-130-105	AC18.11684.0500	3	As, Sb, Se	100

	[▦]								[ppm]
EPA 200.7 Multi-Element Calibration CRM (3E)	5% HNO_3	★	≔ ⊹	125 mL 500 mL	140-120-031 140-120-035	AC18.06212.0125 AC18.06212.0500	3	Co, V P	200 1000
Multi-Element CRM Spectro Optimization (3E)	5% HNO_3	★	⊹ ⇱	125 mL 500 mL	140-128-401 140-128-405	AC18.06224.0125 AC18.06224.0500	3	As, Mn, Pb	200
Multi-Element Stability CRM (3E)	5% HNO_3 + 10% HCl	★	⊹	125 mL	140-128-023	AC18.11818.0125	3	Mg, Pb, Rh	10
Multi-Element TCLP RM (3E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13848.0100 CL01.13848.0500	AC18.20366.0100 AC18.20366.0500	3	As, Pb Se	25 5
EPA 6010 Multi-Element RM (3E)	5% HNO_3 + traces HF	✦	≔	100 mL 500 mL	CL01.13821.0100 CL01.13821.0500	AC18.20354.0100 AC18.20354.0500	3	As, Pb, Se	10
EPA 200.7 Multi-Element Interference Check RM (3E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13763.0100 CL01.13763.0500	AC18.20342.0100 AC18.20342.0500	3	Al Fe Ni	30 150 20
EPA 200.7 Multi-Element RM (3E)	2% HNO_3 + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13741.0100 CL01.13741.0500	AC18.20333.0100 AC18.20333.0500	3	B, Mo Si	500 2000
EPA 200.7 Multi-Element Calibration RM (3E)	2% HNO_3 + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13733.0100 CL01.13733.0500	AC18.20330.0100 AC18.20330.0500	3	As Mo, Si	500 100
Multi-Element Calibration RM (3E)	5% HNO_3 + traces HF	✦	≔ ☑ ≋	100 mL 500 mL	CL01.13647.0100 CL01.13647.0500	AC18.20299.0100 AC18.20299.0500	3	B, Mo, Si	500
Multi-Element Quality Control RM (3E)	2% HNO_3	✦	☑	100 mL 500 mL	CL01.13605.0100 CL01.13605.0500	AC18.02456.0100 AC18.02456.0500	3	K Li Na	10000 250 1000
Multi-Element Interference Check CRM (4E)	1% HF	★	⤭	125 mL 250 mL 500 mL	140-104-031 140-104-032 140-104-035	AC18.06173.0125 AC18.06173.0250 AC18.06173.0500	4	B Mo Si Ti	500 300 250 1000
EPA 200.7 Multi-Element RM (4E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13723.0100 CL01.13723.0500	AC18.20326.0100 AC18.20326.0500	4	As, Pb, Se, Tl	10
EPA 6010 Multi-Element Calibration RM (4E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13805.0100 CL01.13805.0500	AC18.20346.0500 AC18.20346.0100	4	Mg Sb, Tl	1000 200
Multi-Element Stability CRM (4E)	5% HNO_3 + 10% HCl	★	⊹	125 mL	140-128-024	AC18.11819.0125	4	Mg, Na, Pb, Rh	10
Multi-Element Ratio CRM (4E)	5% HNO_3	★	⊹	125 mL	140-128-022	AC18.11803.0125	4	Ag, Ba, Ce, Pb	10
Multi-Element USP 2232 Dietary Supplements CRM (4E)	2% HNO_3	★	≔	125 mL	140-131-061	AC18.06242.0125	4	As, Hg Cd Pb	1.5 0.5 1
Multi-Element Interference Check CRM (4E)	5% HNO_3	★	⤭	125 mL 500 mL	140-118-011 140-118-015	AC18.06790.0125 AC18.06790.0500	4	Al, Ca, Mg Fe	2500 1000

★ ISO 17034
✦ ISO 17025
▲ Analytical Standard

⊹ Calibration & Verification Standards
☑ Quality Control & Performance Check Standards
⇱ Instrument Performance & Tuning Solutions
≔ Regulatory Methods
≋ Environmental Water Standards
⤭ Internal & Interference Correction Standard

Description of the chemical standard
[▦] Matrix – The solution base or solvent used
Compliance status with relevant ISO standards
Functional categories (Multi-Element Standards)
Volume or quantity supplied
Legacy Item Number
Current product identification code
Count of elements included in the standard
Specific element(s) present in the solution
Composition
[ppm] Element concentration level in the matrix

ISO 17034

ISO 17025

Analytical Standard

Calibration & Verification Standards

Quality Control & Performance Check Standards

Instrument Performance & Tuning Solutions

Regulatory Methods

Environmental Water Standards

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Description of the chemical standard

Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

Element concentration level in the matrix

	[matrix]								[ppm]
Multi-Element Internal CRM (4E)	10% HNO_3	★	⤭	125 mL 250 mL	140-111-201 140-111-202	AC18.06191.0125 AC18.06191.0250	4	Bi, Ge, In, Li	100
Multi-Element Drinking Water CRM (4E)	2% HNO_3	★	≋	125 mL 250 mL 500 mL	141-105-021 141-105-022 141-105-025	AC18.11804.0125 AC18.11804.0250 AC18.11804.0500	4	Cu Fe Mn Zn	100 30 5 500
Multi-Element TCLP CRM (4E)	2% HNO_3	★	≔	125 mL 250 mL 500 mL	140-112-021 140-112-022 140-112-025	AC18.11825.0125 AC18.11825.0250 AC18.11825.0500	4	Ag, Cr Ba Cd	25 500 5
Multi-Element Alternate Metals CRM (4E)	2% HNO_3	★	≋ ⊹	125 mL 250 mL 500 mL	140-107-021 140-107-022 140-107-025	AC18.06183.0125 AC18.06183.0250 AC18.06183.0500	4	Ca, Na K, Mg	500 100
Multi-Element Quality Control CRM (4E)	4% HNO_3	★	⊹	500 mL	140-114-015	AC18.06194.0500	4	Ca, K, Mg, Na	2500
Multi-Element Tuning CRM (4E)	5% HNO_3	★	⊹ ⇱	125 mL	140-130-371	AC18.11764.0500	4	Pb Yb V Zn	10 2.5 5 20
Multi-Element Calibration CRM (4E)	5% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-101-051 140-101-052 140-101-055	AC18.06769.0125 AC18.06769.0250 AC18.06769.0500	4	Ag Mg Sb, Tl	50 1000 200
Multi-Element Interference Check CRM (4E)	5% HNO_3	★	⤭	125 mL 250 mL 500 mL	140-104-041 140-104-042 140-104-045	AC18.06174.0125 AC18.06174.0250 AC18.06174.0500	4	Al Ca, Fe Mg	400 2000 1000
EPA 200.7 Multi-Element Calibration CRM (4E)	5% HNO_3	★	≔ ⊹	125 mL	140-120-041	AC18.11698.0125	4	Al Cr, Zn Hg	1000 500 200
EPA 200.11 Multi-Element RM (4E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13853.0100 CL01.13853.0500	AC18.20369.0100 AC18.20369.0500	4	Na, Pb Tl, Zn	100 50
Multi-Element Plasma CRM (4E)	5% HNO_3	★	⊹	125 mL 500 mL	140-121-011 140-121-015	AC18.11795.0125 AC18.11795.0500	4	As, Pb, Se, Tl	100
Multi-Element CRM (4E)	5% HNO_3	★	⊹	500 mL	140-128-004	AC18.07648.0500	4	Ba, Mg, Zn Ni	10 1
Multi-Element (4E)	10% HCl	▲	⊹	500 mL	11458.2000	AC18.01388.0500	4	S, Sb, Sn, Ti	10
Multi-Element (4E)	6% HNO_3	▲	⊹	500 mL	27389.2000	AC18.01716.0500	4	Ca, Na, K, Mg	1000
Multi-Element TCLP RM (4E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13847.0100 CL01.13847.0500	AC18.20365.0100 AC18.20365.0500	4	Ag, Cr Ba Cd	25 500 5

	[▦]								[ppm]
EPA 6010 Multi-Element Internal RM (4E)	5% HNO_3 + traces HF	✦	≔	100 mL 500 mL	CL01.13812.0100 CL01.13812.0500	AC18.20351.0100 AC18.20351.0500	4	B Mo Si Ti	500 300 200 1000
EPA 200.7 Multi-Element RM (4E)	H_2O + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13751.0100 CL01.13751.0500	AC18.20337.0100 AC18.20337.0500	4	B, P Ca Mo	400 1000 200
EPA 200.7 Multi-Element RM (4E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13742.0100 CL01.13742.0500	AC18.20334.0100 AC18.20334.0500	4	K Mg Na Si	10000 2000 3000 2000
Multi-Element Internal RM (4E)	5% HNO_3	✦	≔ ☑ ≋	100 mL 500 mL	CL01.13681.0100 CL01.13681.0500	AC18.20312.0100 AC18.20312.0500	4	Al, Ca, Mg Fe	5000 2000
EPA 200.7 Multi-Element RM (4E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13752.0100 CL01.13752.0500	AC18.02482.0100 AC18.02482.0500	4	Ca, Mg, K, Na	10000
EPA 200.7 Multi-Element Calibration RM (4E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13703.0100 CL01.13703.0500	AC18.02474.0100 AC18.02474.0500	4	Ce, Co, V P	20 100
Multi-Element Calibration RM (5E)	5% HNO_3	✦	≔ ☑ ≋	100 mL 500 mL	CL01.13641.0100 CL01.13641.0500	AC18.02467.0100 AC18.02467.0500	4	Ca, Mg, K, Na	5000
Multi-Element Quality Control RM (4E)	2% HNO_3	✦	☑	100 mL 500 mL	CL01.13606.0100 CL01.13606.0500	AC18.02457.0100 AC18.02457.0500	4	Ba, Ca, Mg, Sr	1000
Multi-Element (4E)	H_2O	▲	⊹	100 mL	18851.0000	AC18.01515.0100	4	Br, Cl, F, SO_4^{2-}	1000
Multi-Element (4E)	H_2O	▲	⊹	500 mL	20049.2000	AC18.06926.0500	4	Cl-, CHO_2-, SO_4^{2-}, $S_2O_3^{2-}$	1000
Multi-Element Alternate Metals RM (4E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13845.0100 CL01.13845.0500	AC18.02486.0100 AC18.02486.0500	4	Ca, Na K, Mg	500 100
Multi-Element RM (4E)	H_2O	✦	≔ ≋	100 mL 500 mL	CL01.13838.0100 CL01.13838.0500	AC18.20361.0100 AC18.20361.0500	4	F, NO_2, NO_3, PO_4	100
Multi-Element CRM (4E)	20% HNO_3	★	⊹	500 mL	600-054-508	AC18.23345.0500	4	Ca, K, Mg, Na	10000
EPA 200.7 Spiking Multi-Element CRM (4E)	5% HNO_3	★	≔	500 mL	600-094-801	AC18.15400.0500	4	Ca, K, Mg, Na	1000
EPA 200.7 Spiking Multi-Element CRM (4E)	5% HNO_3	★	≔	500 mL	600-144-902	AC18.09269.0500	4	Ca, K, Mg, Na	100
EPA 200.7 Spiking Multi-Element CRM (4E)	5% HNO_3	★	≔	500 mL	600-144-902	AC18.09269.0500	4	Ca, K, Mg, Na	100

	[▦]								[ppm]
EPA 6020 Multi-Element Internal CRM (4E)	5% HNO_3	★	≔	(2x25 mL)	AQ0-159-420	AC18.23354.0002	4	Co, In, Li, Tl	10
Multi-Element Calibration CRM (4E)	5% HNO_3	★	≔ ⊹	125 mL 500 mL	141-120-041 141-120-045	AC18.06103.0100 AC18.06103.0500	4	Al, Cr, Zn Hg	1000 500 200
EPA 200.8 Multi-Element CRM (5E)	3% HNO_3	★	≔	(2x25 mL)	AQ0-108-560	AC18.23352.0002	5	Be, Co, In, Pb, Mg	10
EPA 200.8 Multi-Element Tuning CRM (5E)	4% HNO_3	★	≔	(2x25 mL)	AQ0-127-290	AC18.23353.0002	5	Bi, In, Sc, Tb, Y	20
EPA 200.7 Multi-Element RM (5E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13745.0100 CL01.13745.0500	AC18.02481.0100 AC18.02481.0500	5	As, Se, Tl Cd Pb	2000 50 500
Multi-Element Verification RM (5E)	5% HNO_3	✦	≔ ☑ ≋	100 mL 500 mL	CL01.13657.0100 CL01.13657.0500	AC18.20303.0100 AC18.20303.0500	5	As, Tl Cd, Pb, Se	25 50
Multi-Element Calibration RM (5E)	5% HNO_3	✦	≔ ☑ ≋	100 mL 500 mL	CL01.13644.0100 CL01.13644.0500	AC18.20297.0100 AC18.20297.0500	5	As, Tl Cd, Pb, Se	100 50
EPA 6010 Multi-Element Calibration RM (5E)	2% HNO_3	✦	≔	100 mL 500 mL	CL01.13735.0100 CL01.13735.0500	AC18.20332.0100 AC18.20332.0500	5	Ag B Mg Sb	50 100 1000 200
EPA 200.7 Multi-Element RM (5E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13754.0100 CL01.13754.0500	AC18.20339.0100 AC18.20339.0500	5	As, Pb Cd Se, Tl	200 100 400
Multi-Element Interference Check CRM (5E)	5% HNO_3	★	☑	125 mL 500 mL	140-124-021 140-124-025	AC18.06219.0125 AC18.06219.0500	5	Co Cr, V, Mn Cu	100 200 400
Multi-Element Tuning CRM (5E)	2% HNO_3	★	⇱	125 mL 500 mL 1000 mL	140-130-441 140-130-445 140-130-446	AC18.06813.0125 AC18.06813.0500 AC18.06813.1000	5	Ce, Co, Li, Tl, Y	10
Multi-Element Tuning CRM (5E)	2% HNO_3	★	⇱	125 mL 500 mL	140-130-401 140-130-405	AC18.06233.0125 AC18.06233.0500	5	Ce, Co, Li, Tl, Y	0.01
Multi-Element Calibration CRM (5E)	5% HNO_3	★	⊹	125 mL 500 mL	140-114-041 140-114-045	AC18.06197.0125 AC18.06197.0500	5	As, Tl Cd, Pb, Se	100 50
Multi-Element Calibration CRM (5E)	5% HNO_3	★	⊹	125 mL 500 mL	140-114-031 140-114-035	AC18.06196.0125 AC18.06196.0500	5	Al, Ba Be Cu Fe	2000 50 250 1000
EPA 200.8 Multi-Element Tuning CRM (5E)	5% HNO_3	★	≔	125 mL 500 mL	140-122-021 140-122-025	AC18.06217.0125 AC18.06217.0500	5	Be, Co, In, Mg, Pb	500

	[ ]								[ppm]
Multi-Element CRM (5E)	5% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-130-201 140-130-202 140-130-205	AC18.11788.0125 AC18.11788.0250 AC18.11788.0500	5	Bi, In, Sc, Tb, Y	20
EPA 200.7 Multi-Element Calibration CRM (5E)	5% HNO_3	★	≔ ⊹	125 mL 500 mL	140-120-021 140-120-025	AC18.06211.0125 AC18.06211.0500	5	K Li Mo, Na Sr	2000 500 1000 100
Multi-Element Calibration CRM (5E)	5% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-101-021 140-101-022 140-101-025	AC18.06162.0125 AC18.06162.0250 AC18.06162.0500	5	Ba, Co, Cu, V Fe	100 1000
Multi-Element Calibration CRM (5E)	5% HNO_3	★	⊹	125 mL 500 mL	140-114-021 140-114-025	AC18.06195.0125 AC18.06195.0500	5	Ag, Cr Mn Ni Zn	100 150 400 200
Multi-Element Standard (5E)	HCl/HNO_3	▲	⊹	500 mL	02027.2000	AC18.01340.0500	5	Ca, Na Fe, Mg K	1000 200 100
Multi-Element Standard (5E)	6% HNO_3	▲	⊹	500 mL	02337.2000	AC18.01349.0500	5	Al, Ca, K, Mg, Na	1000
EPA 200.11 Multi-Element RM (5E)	5% HNO_3	✦	≔	500 mL 100 mL	CL01.13854.0500 CL01.13854.0100	AC18.20370.0500 AC18.20370.0100	5	Be Fe, P K Ni	10 100 20 200
Multi-Element Drinking Water RM (5E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13833.0100 CL01.13833.0500	AC18.20357.0100 AC18.20357.0500	5	Al, Mn, Ag, Zn Fe	10 100
EPA 6010 Multi-Element RM (5E)	2% HNO_3 + traces HF	✦	≔	100 mL 500 mL	CL01.13822.0100 CL01.13822.0500	AC18.20355.0100 AC18.20355.0500	5	Cr, Cu, Li, Mn, V	10
EPA 6010 Multi-Element Internal RM (5E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13814.0100 CL01.13814.0500	AC18.20353.0100 AC18.20353.0500	5	Al Ca Fe Mg Na	1200 6000 5000 3000 1000
EPA 6010 Multi-Element Calibration RM (5E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13807.0100 CL01.13807.0500	AC18.20348.0100 AC18.20348.0500	5	B P, Sn Ti, Si	50 200 100
EPA 200.7 Multi-Element Interference Check RM (5E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13762.0100 CL01.13762.0500	AC18.20341.0100 AC18.20341.0500	5	Co, V Cr, Mn Cu	10 20 40
EPA 200.7 Multi-Element Calibration RM (5E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13732.0100 CL01.13732.0500	AC18.20329.0100 AC18.20329.0500	5	Ba, Co, Cu, V Fe	100 10000

★ ISO 17034
✦ ISO 17025
▲ Analytical Standard

⊹ Calibration & Verification Standards
☑ Quality Control & Performance Check Standards
Instrument Performance & Tuning Solutions
≔ Regulatory Methods
≋ Environmental Water Standards
Internal & Interference Correction Standard

Description of the chemical standard
[ ] Matrix – The solution base or solvent used
Compliance status with relevant ISO standards
Functional categories (Multi-Element Standards)
Volume or quantity supplied
Legacy Item Number
Current product identification code
Count of elements included in the standard
Specific element(s) present in the solution
Composition
[ppm] Element concentration level in the matrix

ISO 17034

ISO 17025

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[ppm] Element concentration level in the matrix

	[▦]								[ppm]
Multi-Element Calibration RM (5E)	5% HNO_3	✦	≔ ☑ ≋	100 mL 500 mL	CL01.13642.0100 CL01.13642.0500	AC18.20296.0100 AC18.20296.0500	5	Ag, Cr Mn Zn Ni	100 150 200 400
EPA 200.7 Multi-Element Performance Check RM (5E)	5% HNO_3 + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13722.0100 CL01.13722.0500	AC18.02480.0100 AC18.02480.0500	5	Mo, Sb, Sn, Ti Si	20 100
EPA 200.7 Multi-Element LFSS RM (5E)	5% HNO_3 + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13714.0100 CL01.13714.0500	AC18.02478.0100 AC18.02478.0500	5	Mo, Si, Sb, Sn, Ti	20
EPA 200.7 Multi-Element Calibration RM (6E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13704.0100 CL01.13704.0500	AC18.02475.0100 AC18.02475.0500	5	Al, Si Cr, Zn Sn	100 50 40
Multi-Element Verification CRM (5E)	5% HNO_3	★	⊹	125 mL 500 mL	141-116-021 141-116-025	AC18.11853.0100 AC18.11853.0500	5	Al, As, Cr, Se, V	500

EPA Methods Deep Dive

We provide a full portfolio of inorganic standards engineered to support every requirement of EPA 6010, EPA 200.7, EPA 200.11, and EPA 200.8. Whether your laboratory focuses on water, waste, soils, sludges, or biological materials, our multi element standards, certified reference materials, and method specific SETs ensure seamless compatibility with these widely used analytical procedures.

EPA Method 6010

Technique: Inductively Coupled Plasma–Atomic Emission Spectrometry (ICP-AES)

EPA Method 6010 provides a framework for multi-element metal analysis in a wide range of environmental matrices, including soils, sediments, wastes, and certain water types. It relies on ICP-AES to measure emission wavelengths characteristic of each element, enabling simultaneous multi-element quantification. The method emphasizes proper sample digestion for all matrices except pre-filtered, acid-preserved groundwater; this is essential to ensure metals are fully solubilized before measurement. It also defines strict quality-control procedures, such as calibration verification, interference evaluation, and performance checks, to maintain analytical reliability.

EPA Method 200.7

Technique: ICP-AES for Metals in Water and Waste

EPA Method 200.7 outlines the determination of metallic and trace-element constituents in drinking water, surface water, groundwater, and various waste waters (including arsenic, osmium, titanium, vanadium, and thallium; generally used for multi-element analysis of ~31 metals). Using ICP-AES, the method measures element-specific emission lines after samples are either filtered and acid-preserved (for dissolved metals) or digested (for total recoverable metals). EPA guidance consolidates this method as part of its approved procedures for water compliance monitoring, with defined detection limits, applicable analytes, and instrument operating conditions. Its structure ensures consistency across laboratories by prescribing calibration, instrument checks, and quality-control elements necessary for reproducible trace-metal measurements.

EPA Method 200.11

Technique: ICP-AES for Metals in Fish Tissue

EPA Method 200.11 is designed specifically for determining naturally occurring and accumulated metals (arsenic, thallium, vanadium, and many others) in edible fish tissue using ICP-AES. The procedure is optimized for fresh (not previously frozen) tissue to prevent analyte loss or contamination from cellular breakdown. It includes detailed instructions for tissue preparation, digestion, calibration, and quality-control verification. The method provides structured guidance on handling interferences, establishing background corrections, and ensuring dependable measurement of trace metals in biological matrices—making it an essential analytical approach for environmental and food-safety monitoring of aquatic ecosystems.

EPA Method 200.8

Technique: Inductively Coupled Plasma–Mass Spectrometry (ICP-MS)

EPA Method 200.8 defines procedures for determining dissolved and total recoverable trace elements (including Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Th, U, V, Zn) in drinking water, ground water, surface water, wastewater, sludges, and soils using ICP-MS. This method extends analytical sensitivity to very low detection levels, supporting metals monitoring where stringent regulatory limits exist. It prescribes sample filtration and acid preservation for dissolved metals, while total recoverable determinations require digestion. The method lists applicable analytes and details instrument performance expectations, including control of matrix effects, interference correction, and use of internal standards. These provisions enable laboratories to obtain precise, defensible trace-metal data across complex environmental matrices.

Regulatory Method SETs

To make selection effortless, our EPA aligned SETs are clearly marked with intuitive icons throughout the Multi Element Standards section, helping you quickly identify the ideal product for each method.

Key Benefits of **AnalytiChem** EPA SETs

Save Money

Streamlined, Method Aligned Sets Reduce Unnecessary Purchases And Eliminate Over Specification.

Complete Compliance Coverage

Each Set Is Designed To Meet The Required Analyte Lists, Concentrations, And Preparation Expectations Of The Corresponding Epa Method.

Zero Guesswork

Our Curated Sets Take The Complexity Out Of Method Setup—No More Searching, Mixing, Or Matching Components.

Method Aligned Icons

Every Set Includes A Distinct Icon So You Can Easily Navigate Requirements Across The Multi Element Standards Lineup.

Drinking Water Metals, Primary, 250 mL	★	≋	2 x 125 mL	140-105-011	AC18.11707.0125	Includes 1 each of 141-105-011, 141-105-111
			2 x 250 mL	140-105-012	AC18.11707.0250	Includes 1 each of 141-105-102, 141-105-112
ICP-MS Verification Set, 500 ML	★	⊹	3 x 125 mL	140-110-031	AC18.06189.0125	Includes 1 each of 141-110-011, 141-110-111, 140-110-021
			3 x 250 mL	140-110-032	AC18.06189.0250	Includes 1 each of 141-110-012, 141-110-112, 140-110-022
			3 x 500 mL	140-110-035	AC18.06189.0500	Includes 1 each of 141-110-015, 141-110-115, 140-110-025
Alternate Metals Set, 500 ML	★	⊹	2 x 125 mL	140-107-031	AC18.06184.0125	Includes 1 each of 140-107-011, 140-107-021
			2 x 250 mL	140-107-032	AC18.06184.0250	Includes 1 each of 140-107-012, 140-107-022
			2 x 500 mL	140-107-035	AC18.06184.0500	Includes 1 each of 140-107-015, 140-107-025
PA Tuning Solution Set	★	⇖	2 x 125 mL	140-130-391	AC18.06232.0125	Includes 1 each of 140-130-371, 140-130-381
Trace Metals Set, 125 mL	★	⊹	3 x 125 mL	140-106-041	AC18.06181.0125	Includes 1 each of 140-106-011, 140-106-021, 140-106-031
			3 x 250 mL	140-106-042	AC18.06181.0250	Includes 1 each of 140-106-012, 140-106-022, 140-106-032
			3 x 500 mL	140-106-045	AC18.06181.0500	Includes 1 each of 140-106-015, 140-106-025, 140-106-035

Multi-Element: From 6 To 10 Elements

Supporting high-quality inorganic analysis with analytically proven methodologies

									[ppm]
EPA 200.7 Multi-Element Calibration RM (6E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13705.0100 CL01.13705.0500	AC18.02476.0100 AC18.02476.0500	6	Be Fe, Pb, Mg Ni	10 100 20
EPA 200.7 Multi-Element Calibration RM (6E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13734.0100 CL01.13734.0500	AC18.20331.0100 AC18.20331.0500	6	Al, Na Ca Cr, Ni K	200 1000 20 400
Multi-Element Anion Standard (6E)	H_2O	▲	☑	100 mL 500 mL	28359.1000 28359.2000	AC18.01749.0250	6	F-, NO_3 -, Cl-, PO_4^{3-}, Br-, SO_4^{2-}	10
Multi-Element Drinking Water CRM (6E)	5% HNO_3	★	≋	125 mL 500 mL	140-126-111 140-126-115	AC18.06221.0125 AC18.06221.0500	6	Ag, B, Ba, Cd, Cr, Pb	100
Multi-Element Interference Check CRM (6E)	5% HNO_3	★	⤭	125 mL 500 mL	140-118-031 140-118-035	AC18.06205.0125 AC18.06205.0500	6	Cu, Mn, V, Ni, Cr, Ti	1000
Multi-Element Verification CRM (6E)	1% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-110-021 140-110-022 140-110-025	AC18.06671.0125 AC18.06671.0250 AC18.06671.0500	6	B, Mo, S, Si, Tl, W	10
USP 232 Multi-Element CRM (6E)	10% HCl	★	≔	125 mL	140-131-051	AC18.06241.0125	6	Ir, Os, Pd, Pt, Rh, Ru	10
USP 232 Multi-Element CRM (6E)	10% HCl	★	≔	125 mL	140-131-021	AC18.06238.0125	6	Ir, Os, Pd, Pt, Rh, Ru	100
Multi-Element Tuning CRM (6E)	2% HNO_3	★	⇱	125 mL 500 mL	140-130-451 140-130-455	AC18.06814.0125 AC18.06814.0500	6	Ce, Co, Li, Mg, Tl, Y	0.001
Multi-Element Tuning CRM (6E)	2% HNO_3	★	⇱	125 mL	140-130-471	AC18.06235.0125	6	Ce, Co, Li, Mg, Tl, Y	10
Multi-Element Trace Metals CRM (6E)	2% HNO_3	★	≋ ⊹	125 mL 250 mL 500 mL	140-106-031 140-106-032 140-106-035	AC18.06666.0125 AC18.06666.0250 AC18.06666.0500	6	Ba, Ca, Mo, Na K, Mg	500 100
USP 232 Multi-Element CRM (6E)	5% HCl	★	≔	125 mL	141-131-171	AC18.11842.0125	6	Ir, Os, Pd, Pt, Rh, Ru	1
Multi-Element Calibration CRM (6E)	5% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-101-011 140-101-012 140-101-015	AC18.06161.0125 AC18.06161.0250 AC18.06161.0500	6	Be Cd, Zn Mn Pb Se	50 150 100 500 200

	[▦]								[ppm]
Multi-Element Verification CRM (6E)	5% HNO_3	★	⊹	125 mL 500 mL	140-116-021 140-116-025	AC18.06202.0125 AC18.06202.0500	6	Al, As, Cr, Sb, Se, V	500
EPA 200.7 Multi-Element Calibration CRM (6E)	5% HNO_3	★	≔ ⊹	125 mL 500 mL	140-120-051 140-120-055	AC18.06214.0125 AC18.06214.0500	6	Be Fe, Mg, Pb Ni Tl	100 1000 200 500
Multi-Element Bernd Kraft Precious metals RM (6E)	10% HCl	✦	⇱	100 mL	34037.0000	AC18.02294.0100	6	Au, Ir, Pd, Pt, Rh, Ru	100
Multi-Element KoWa Standard (6E)	HNO_3 1% and HCl 3%	▲	⊹	500 mL	20231.2000	AC18.01578.0500	6	As Ca Fe Mn, Zn S	10 2000 5000 200 1000
Multi-Element Ocean Standard (6E)	6% HNO_3	▲	≋	100 mL 500 mL	33216.0000 33216.2000	AC18.02099.0100	6	B, Sr Ca, K Li Mg	100 5000 20 15000
Multi-Element ICP-MS Standard (6E)	12% HNO_3	▲	⊹	100 mL	27574.0000	AC18.01725.0100	6	Ce, Co, Li, Mg, Tl, Y	1000
Multi-Element Trace Metals RM (6E)	5% HNO_3 + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13843.0100 CL01.13843.0500	AC18.20363.0100 AC18.20363.0500	6	Ba, Ca, Mo, Na Mg, K	500 100
EPA 200.7 Multi-Element Calibration RM (6E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13734.0100 CL01.13734.0500	AC18.20331.0100 AC18.20331.0500	6	Al, Na Ca Cr, Ni K	200 1000 20 400
EPA 200.7; EPA 6010 Multi-Element Calibration RM (6E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13731.0100 CL01.13731.0500	AC18.20328.0100 AC18.20328.0500	6	Mn Cd, Zn Se Be Pb	100 150 200 50 500
Multi-Element Internal RM (6E)	5% HNO_3	✦	≔ ☑ ≋	100 mL 500 mL	CL01.13683.0100 CL01.13683.0500	AC18.20314.0100 AC18.20314.0500	6	Cr, Cu, Mn, Ni, Ti, V	1000
Multi-Element MISA RM (6E)	10% HCl	✦	≔	100 mL 500 mL	CL01.13862.0100 CL01.13862.0500	AC18.02489.0100 AC18.02489.0500	6	Au, Ir, Pd, Pt, Rh, Ru	100
EPA 200.7 Multi-Element Calibration RM (6E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13702.0100 CL01.13702.0500	AC18.02473.0100 AC18.02473.0500	6	K Li Sr Mo, Na, Ti	200 50 10 100
Multi-Element Tuning CRM Shimadzu (6E)	2% HNO_3	★	⇱	125 mL 250 mL 500 mL	140-130-561 140-130-562 140-130-565	AC18.11807.0125 AC18.11807.0250 AC18.11807.0500	6	Be Bi, Ce, In Co, Mn	0.01 0.002 0.005

	[▦]						***		[ppm]
Multi-Element Internal CRM (7E)	5% HNO_3	★	⤮	125 mL 250 mL 500 mL	140-111-081 140-111-082 140-111-085	AC18.06190.0125 AC18.06190.0250 AC18.06190.0500	7	Bi, Ge, In, ^{6}Li, Sc, Tb, Y	10
Multi-Element Drinking Water CRM (7E)	2% HNO_3	★	≋	125 mL 250 mL 500 mL	141-105-011 141-105-012 141-105-015	AC18.11712.0100 AC18.11712.0250 AC18.11712.0500	7	Ag, As, Cr Ba Cd Pb Se	11 100 5 10 6
Multi-Element CRM (7E)	5% HNO_3	★	⊹	500 mL	140-128-003	AC18.07647.0500	7	Ag, Al, B, Ba, Na K Si	10 100 5
Multi-Element Quality Control CRM (7E)	5% HNO_3	★	☑	2x25 mL 125 mL 250 mL 500 mL	140-102-020 140-102-021 140-102-022 140-102-025	AC18.06166.0002 AC18.06166.0125 AC18.06166.0250 AC18.06166.0500	7	Ag, Al, B, Ba, Na K Si	100 1000 50
USP 232/ICH Q_3D Multi-Element CRM (7E)	10% HCl	★	≔	(2x25 mL) 125 mL 500 mL	140-131-260 140-131-261 140-131-265	AC18.14250.0002 AC18.14250.0125 AC18.14250.0500	7	Ir, Os, Pd, Pt, Rh, Ru Au	10 300
USP 232/ICH Q_3D Multi-Element CRM (7E)	10% HCl	★	≔	(2x25 mL) 125 mL 500 mL	140-131-110 140-131-111 140-131-115	AC18.06244.0002 AC18.06244.0125 AC18.06244.0500	7	Au, Ir, Os, Pd, Pt, Rh, Ru	100
USP 232/ICH Q_3D Multi-Element CRM (7E)	10% HCl	★	≔	(2x25 mL) 125 mL 500 mL	140-131-210 140-131-211 140-131-215	AC18.06248.0002 AC18.06248.0125 AC18.06248.0500	7	Ir, Os, Pd, Pt, Rh, Ru Au	10 100
USP 232/ICH Q_3D Multi-Element CRM (7E)	10% HNO_3	★	≔	(2x25 mL) 125 mL 500 mL	140-131-140 140-131-141 140-131-145	AC18.06246.0002 AC18.06246.0125 AC18.06246.0500	7	As Cd, Pb Co Hg Ni V	15 5 50 30 200 100
USP 232 ICH Q_3D Multi-Element CRM (7E)	5% HCl	★	≔	(2x25 mL) 125 mL 500 mL	140-131-360 140-131-361 140-131-365	AC18.23307.0002 AC18.23307.0125 AC18.23307.0126	7	Ir, Os, Pd, Pt, Rh, Ru Au	1 3
USP 232 ICH Q_3D Multi-Element CRM (7E)	5% HCl	★	≔	(2x25 mL) 125 mL 500 mL	140-131-310 140-131-311 140-131-315	AC18.07641.0002 AC18.07641.0125 AC18.07641.0500	7	Au, Ir, Os, Pd, Pt, Rh, Ru	1

	[▦]								[ppm]
USP 232 ICH Q_3D Multi-Element CRM (7E)	5% HNO_3 + 0.5% HF	★	≔	125 mL (2x25 mL) 500 mL	140-131-221 140-131-220 140-131-225	AC18.06249.0125 AC18.06249.0002 AC18.06249.0500	7	Cr Mo Li Cu Sn Ba Sb	1100 1500 250 300 600 700 90
USP 232 ICH Q_3D Multi-Element CRM (7E)	5% HNO_3 + 0.5% HF	★	≔	125 mL 500 mL (2x25 mL)	140-131-121 140-131-125 140-131-120	AC18.06245.0125 AC18.06245.0500 AC18.06245.0002	7	Cr Sb Ba Cu, Mo Li Sn	1100 120 140 300 55 600
Multi-Element CRM (7E)	H_2O + TMA	★	⊹	500 mL	610-084-209	AC18.23340.0500	7	Br, Cl, F, NO_3, NO_2, PO_4, SO_4	100
Multi-Element CRM (7E)	2% HNO_3	★	↖	125 mL 250 mL 500 mL	140-103-071 140-103-072 140-103-075	AC18.07493.0125 AC18.07493.0250 AC18.07493.0500	7	Al, Ba, Cd, Cu, Mn, Zn K	50 500
Multi-Element Wavelength Calibration CRM WaveCal (7E)	2% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-128-141 140-128-142 140-128-145	AC18.11863.0125 AC18.11863.0250 AC18.11863.0500	7	Ba Be, La, Mn, Ni, Sc, Zn	50 20
Multi-Element Wavelength Calibration CRM WaveCal (7E)	2% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-128-131 140-128-132 140-128-135	AC18.06099.0125 AC18.06099.0250 AC18.06099.0500	7	Ba, Ca La, Li, Mn, Na K	1 10 50
Multi-Element Tuning CRM iCAP Q / iCAP / ICAP (7E)	2% HNO_3 + 0.5% HCl	★	↖	500 mL 1000 mL	140-130-485 140-130-486	AC18.06815.0500 AC18.06815.1000	7	Ba, Bi, Ce, Co, In, Li, U	0.001
Multi-Element TCLP CRM (7E)	5% HNO_3	★	≔	125 mL 250 mL 500 mL	140-112-011 140-112-012 140-112-015	AC18.06192.0125 AC18.06192.0250 AC18.06192.0500	7	Ag, As, Cr, Pb Cd, Se Ba	25 5 500
Multi-Element Standard (7E)	Diluted HNO_3	▲	⊹	500 mL	04379.2000	AC18.01367.0500	7	Cr, Cu, Pb Cd Ni Hg Zn	1200 20 200 25 3000
Multi-Element Standard (7E)	7% HCl	▲	⊹	500 mL	10322.2300	AC18.06318.0500	7	Hf, Sb, Ta, W Sn Zr Nb	0.5 1 20 5

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Composition

[ppm] Element concentration level in the matrix

	[▦]								[ppm]
Multi-Element Standard (7E)	0.6% HNO_3	▲	⊹	500 mL	27488.2300	AC18.01721.0500	7	Co, Cu, Cr, Fe, Ni, Pb, Zn	1
Multi-Element Standard (7E)	12% HNO_3	▲	⊹	500 mL	02513.2000	AC18.01353.0500	7	Al, Ca, Fe, K, Mg, Mn, Na	1000
Multi-Element Standard (7E)	12% HNO_3	▲	⊹	500 mL	10353.2000	AC18.01371.0500	7	Ca, Na Fe, Mn K, Mg Zn	2000 20 500 10
EPA 200.11 Multi-Element RM (7E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13851.0100 CL01.13851.0500	AC18.20367.0100 AC18.20367.0500	7	Al, Ca, Mg Cd Cu Sb, Se	100 20 10 50
Multi-Element TCLP RM (7E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13846.0100 CL01.13846.0500	AC18.14524.0100 AC18.14524.0500	7	As, Cr, Pb, Ag Ba Cd, Se	25 500 5
EPA 6010 Multi-Element Quality Control RM (7E)	5% HNO_3	✦	≔ ☑	100 mL 500 mL	CL01.13602.0100 CL01.13602.0500	AC18.14521.0100 AC18.14521.0500	7	Ag Al, Ba, B, Na K Si	50 100 1000 500
Multi-Element Calibration RM (7E)	5% HNO_3	✦	≔ ☑ ≋	100 mL 500 mL	CL01.13643.0100 CL01.13643.0500	AC18.13907.0100 AC18.13907.0500	7	Fe Al, Ba Be Co, V Cu	1000 2000 50 500 250
Multi-Element Quality Control RM (7E)	2 to 5% HNO_3 + traces HF	✦	☑	100 mL 500 mL	CL01.13607.0100 CL01.13607.0500	AC18.02458.0100 AC18.02458.0500	7	Al, Ba, B, Ag, Na K Si	100 1000 50
EPA 6020 Multi-Element Precious Metal CRM (8E)	2% HNO_3 + 0.1% HCl	★	≔	(2x25 mL)	700-101-122	AC18.23348.0002	8	Bi, Ho, In, 6Li, Rh, Sc, Tb, Y	10
Multi-Element Setup CRM NexION (8E)	1% HNO_3	★	⇱	500 mL	140-130-415	AC18.06812.0500	8	Be, Ce, Fe, In, Li, Mg, Pb, U	0.001
Multi-Element Tuning CRM (8E)	1% HNO_3 + 10% HCl	★	⊹ ⇱	125 mL	140-130-381	AC18.06231.0125	8	Ge, Mo, Pd, Ru, Sb, Sn Ir, Ti	10 5
Multi-Element Wavelength Calibration CRM WaveCal (8E)	2% HNO_3	★	⊹	100 mL 250 mL 500 mL	140-128-231 140-128-232 140-128-235	AC18.06099.0100 AC18.06099.0251 AC18.06099.0500	8	Ba, Ca La, Li, Mn, Na, Sr K	1 10 50

	[ ]								[ppm]
USP 232 Multi-Element CRM (8E)	5% HNO_3	★	≔	125 mL	140-131-031	AC18.06239.0125	8	As, Hg Mo, V Cu Cd Pb Ni	1.5 10 100 2.5 5 50
USP 232 Multi-Element CRM (8E)	5% HNO_3	★	≔	125 mL	140-131-041	AC18.06240.0125	8	As Mo, V Cu Hg Cd Pb Ni	1.5 100 1000 15 25 5 500
USP 232 Multi-Element CRM (8E)	5% HNO_3	★	≔	125 mL	140-131-071	AC18.06234.0125	8	As, Cd Cr Cu Hg, V Mo Ni	2 3 30 1 10 5
Multi-Element Calibration CRM (8E)	5% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-101-041 140-101-042 140-101-045	AC18.06768.0125 AC18.06768.0250 AC18.06768.0500	8	Sr Li Ca Cr, Ni Al, Na K	10 100 1000 20 200 400
Multi-Element Standard (8E)	HCl 10%	▲	⊹	100 mL	33588.0000	AC18.02183.0100	8	Au, Ir, Pd, Pt, Rh, Ru, Re, Os	100
Multi-Element Ocean Standard (8E)	10% HCl with traces HF	▲	≋	100 mL	33509.0000	AC18.02162.0100	8	S Ag, Mo, Sb, Sn, Ti, W, Zr	40000 5
Multi-Element Ocean Standard (8E)	10% HCl with traces HF	▲	≋	100 mL	33214.000	AC18.02097.0100	8	Ag, Mo, Sb, Sn, Ti, W, Zr S	10 20000
Multi-Element Standard (8E)	3% HCl	▲	⊹	500 mL	10237.2000	AC18.01370.0500	8	Ca, Fe Cu, Mn, Zn K, Na Mg	50 20 10 5
Multi-Element Standard (8E)	HNO_3 2% + traces of HF	▲	⊹	500 mL	18276.2000	AC18.01505.0500	8	As, Se, Si Mo, Ti S, P B	100 20 200 50

	[▦]						***		[ppm]
EPA 6010 Multi-Element Calibration RM (8E)	2% HNO_3	✦	≔	500 mL 100 mL	CL01.13804.0500 CL01.13804.0100	AC18.20345.0500 AC18.20345.0100	8	Al, Na Ca Cr, Ni K Li Sr	200 1000 20 400 100 10
Multi-Element Drinking Water RM (9E)	5% HNO_3	✦	≔ ≋	500 mL 100 mL	CL01.13836.0500 CL01.13836.0100	AC18.20360.0500 AC18.20360.0100	9	As, Cd, Cr, Cu, Pb, Ni, Se, Sb, Tl	10
Multi-Element CRM (9E)	2% HNO_3	★	↖	125 mL 250 mL 500 mL	140-103-011 140-103-012 140-103-015	AC18.06170.0125 AC18.06170.0250 AC18.06170.0500	9	B, Ni, Al, Zn Ca, Sc, Ba, Be P	10 1 100
Multi-Element CRM (9E)	2% HNO_3	★	↖	125 mL 250 mL 500 mL	140-103-031 140-103-032 140-103-035	AC18.07618.0125 AC18.07618.0250 AC18.07618.0500	9	K, P Li, Na, As, Mn, Mo, Ni, Sc	100 20
Multi-Element Tuning CRM ELAN / DRC e (9E)	1% HNO_3	★	↖	1000 mL 500 mL	140-130-536 140-130-535	AC18.10037.1000 AC18.10037.0500	9	Ba, Be, Ce, Co, In, Mg, Pb, Rh, U	0.01
Multi-Element Tuning CRM (9E)	10% HCl	★	↖	125 mL 500 mL	140-135-021 140-135-025	AC18.06253.0125 AC18.06253.0500	9	Au, Hf, Ir, Pd, Pt, Rh, Ru, Sn, Te	10
Multi-Element Tuning CRM CirOS (9E)	2% HNO_3 + 5% HCl	★	↖	125 mL 250 mL 500 mL	140-128-201 140-128-202 140-128-205	AC18.06678.0125 AC18.06678.0250 AC18.06678.0500	9	Fe, K, La, P, Sc, Ti Mg, Mn S	10 5 50
EPA 200.7 Multi-Element Calibration CRM (9E)	5% HNO_3	★	≔	125 mL 500 mL	141-120-011 141-120-015	AC18.06102.0100 AC18.06102.0500	9	Al Ba, Ce, Dy, Mo Be Cd Sc, Si	50 200 100 1000 500
USP 232 Multi-Element CRM (9E)	5% HNO_3	★	≔	125 mL	141-131-071	AC18.11841.0125	9	As, Cd Cr Cu Hg, V Mo Ni, Pb	2 3 30 1 10 5
Multi-Element Bernd Kraft RM (9E)	15% HCl	✦	↖	100 mL	34036.0000	AC18.02293.0100	9	Ge, Mo, P, S, Sb, Sn, Ti, W, Zr	100

	[matrix]								[ppm]
Multi-Element Standard (9E)	0.6% HNO_3	▲	⊹	500 mL	02245.2000	AC18.01346.0500	9	Ca Fe, K, P, Sc, Zn Mn Mg Na	100 10 2 20 50
Multi-Element Standard (9E)	1% HNO_3	▲	⊹	500 mL	21841.0000	AC18.01344.0500	9	Ca, Na Cr, Cu, Mn, Ni Fe K, Mg	250 5 25 50
Multi-Element Drinking Water RM (9E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13835.0100 CL01.13835.0500	AC18.20359.0100 AC18.20359.0500	9	As, Ca, Na Ba, Be, Cd, Cr, Cu, Ni	100 10
EPA 200.11 Multi-Element Trace Metals RM (9E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13857.0100 CL01.13857.0500	AC18.02487.0100 AC18.02487.0500	9	As, Hg Cr, Ni Cd Cu Pb, Se Zn	100 20 5 50 10 1000
Multi-Element CRM (9E)	5% HNO_3	★	⊹	125 mL 500 mL	141-123-031 141-123-035	AC18.06107.0100 AC18.06107.0500	9	P, Si Pb, Sb, Se, Sr, Tl, V, Zn	1000 200
Multi-Element Tuning CRM CirOS (9E)	5% HCl + 2% HNO_3	★	⇱	(2x25 mL)	140-128-200	AC18.11838.0025	9	Mg, Mn Fe, K, La, P, Sc, Ti S	5 10 50
Multi-Element Standard (9E)	0.006% HNO_3	▲	⊹	100 mL	21841.0000	AC18.01600.0100	9	Ba, Ca, K, Li, Mg, Mn, Na, NH_4, Sr	100
Multi-Element CRM (9E)	5% HNO_3	★	⊹	500 mL	AQ0-209-945	AC18.23334.0500	9	Al, Ca, Cu, Fe, K, Mg, Na, P, Zn	100
EPA 6020 Multi-Element Internal CRM (9E)	5% HNO_3	★	≔	(2x25 mL)	AQ0-130-790	AC18.23357.0002	9	Ag, As, Cd, Cr, Co, Cu, Mn, Ni, Zn	2
EPA 200.7 Spiking Multi-Element CRM (10E)	10% HCl traces of HNO_3	★	≔	500 mL	700-011-366	AC18.23347.0500	10	Au, Hf, Ir, Pd, Pt, Rh, Ru, Sb, Sn, Te	2

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Volume or quantity supplied

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Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

[ppm] Element concentration level in the matrix

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	[▦]						⁂		[ppm]
EPA 200.7 Multi-Element Calibration RM (10E)	5% HNO_3	✦	≔ ≋	500 mL 100 mL	CL01.13701.0500 CL01.13701.0100	AC18.02472.0500 AC18.02472.0100	10	Ag As, Ca B, Cd, Cu, Mn Ba Sb, Se	5 100 20 10 50 1000
EPA 200.7 Multi-Element Calibration CRM (10E)	5% HNO_3	★	⊹	125 mL 500 mL	141-123-021 141-123-025	AC18.06106.0100 AC18.06106.0500	10	Cu, Fe, Hg, Li, Mg, Mn, Mo, Na, Ni K	200 1000
Multi-Element CRM (10E)	5% HNO_3	★	⊹	125 mL 500 mL	141-123-011 141-123-015	AC18.06105.0100 AC18.06105.0500	10	Al, As, B, Ba, Be, Ca, Cd, Co, Cr Ag	200 50
Multi-Element CRM Thermo / iCAP 6000 (10E)	2% HNO_3	★	⊹	500 mL	140-130-555	AC18.06818.0500	10	Al, Cu, Mn Ba, Ca, Mg, Zn P Ni, K	1 0.2 10 5
USP 232/ICH Q_3D Multi-Element CRM (10E)	5% HNO_3 + 5% HCl	★	≔	2x25 mL 125 mL 500 mL	140-131-240 140-131-241 140-131-245	AC18.06250.0002 AC18.06250.0125 AC18.06250.0500	10	V Sb As Cd Ni Li Hg Cu Co, Pb	10 100 15 2 20 250 3 300 5
USP 232/ICH Q_3D Multi-Element CRM (10E)	10% HNO_3	★	≔	(2x25 mL) 125 mL 500 mL	140-131-100 140-131-101 140-131-105	AC18.06243.0002 AC18.06243.0125 AC18.06243.0500	10	Ag, Se As Cd, Pb Co Hg Ni Tl V	150 15 5 50 30 200 8 100
USP 232/ICH Q_3D Multi-Element CRM (10E)	10% HNO_3	★	≔	(2x25 mL) 125 mL 500 mL	140-131-250 140-131-251 140-131-255	AC18.14248.0002 AC18.14248.0125 AC18.14248.0500	10	Ag, As Cd Co, Pb Hg Ni V Tl Se	15 2 5 3 20 10 8 80

	[ ]								[ppm]
USP 232/ICH Q_3D Multi-Element CRM (10E)	10% HNO_3	★	≔	500 mL (2x25 mL) 125 mL	140-131-205 140-131-200 140-131-201	AC18.06247.0500 AC18.06247.0002 AC18.06247.0125	10	Ag, V As Cd Ni Hg Co, Pb Tl Se	10 15 2 20 3 5 8 80
Multi-Element Tuning CRM Thermo / MS (10E)	2% HNO_3	★	↖	125 mL 500 mL	140-130-501 140-130-505	AC18.07632.0125 AC18.07632.0500	10	Ba, Be, Bi, Ce, Co, In, Li, Ni, Pb, U	0.01
Multi-Element Verification CRM (10E)	5% HNO_3	★	⊹	125 mL 500 mL	140-115-021 140-115-025	AC18.06200.0125 AC18.06200.0500	10	Al, As, Cr, Sb, Se, V Ca, K, Mg, Na	100 1000
Multi-Element Standard (10E)	6% HNO_3	▲	⊹	500 mL	16198.2000	AC18.14248.0500	10	Al, Cu, Mn Ba, Ca, Mg K, P Ni Zn	1 0.2 10 5 2
Multi-Element Tuning CRM DRCplus / DRC (10E)	0.5% HNO_3	★	↖	1000 mL	140-130-426	AC18.10036.1000	10	Be, Ce, Co, Fe, In, Mg, Pb, Th, U Ba	0.001 0.01
Multi-Element Calibration CRM (10E)	1% HNO_3 + 10% HCl	★	⊹	125 mL	140-109-121	AC18.07620.0125	10	Au, Hf, Ir, Pd, Pt, Rh, Ru, Sb, Sn, Te	10

Custom Standards Capabilities



Custom Standards

If you don't find a product in this brochure that perfectly matches your application, **AnalytiChem** offers powerful custom ICP standard capabilities to ensure you get exactly what your method requires. Our custom program enables you to define the precise elements, concentrations, and acid matrices needed for your workflow while maintaining the same high level of quality, stability, and traceability as our catalog products. Every bespoke solution is produced using rigorous manufacturing controls and delivered ready-to-use, helping you avoid the risks, delays, and inconsistencies associated with in-house preparation. Whether you require unconventional analyte combinations, method-specific calibration blends, or complex matrix compositions, our team provides accurate, reliable, and safe custom formulations that seamlessly integrate into your analytical routine.

Can't Find the ICP Standard You Need?

▼

We've Got You Covered !

Example Use-Cases for Custom ICP Standards

Method-Specific Calibration Blends

Laboratories running highly regulated methods often need calibration standards that match a specific analyte list and concentration range. Custom ICP standards allow you to align your calibration solutions with your method's exact targets, helping you optimize performance and reduce unnecessary components.

Specialized Acid Matrices for Complex Samples

Some applications require matrices beyond standard nitric acid, such as mixed acid environments or trace HF content to stabilize certain elements. Custom ICP formulations let you replicate challenging sample conditions, improving accuracy and minimizing matrix-related bias.

Reduced-Hazard Ready-to-Use Solutions

When dealing with particularly hazardous raw materials, custom ICP standards provide a safer alternative by delivering pre-diluted, stable, ready-to-use solutions. This reduces exposure risk, minimizes handling errors, and improves overall laboratory safety.

Unique R&D or Non-Standard Applications

Research and development workflows frequently require non-standard blends not available off the shelf. Custom ICP standards support method development, prototype testing, and feasibility studies by providing highly specific element panels at tailored concentrations.

Matrix-Matched Calibration for Unusual Samples

Industrial, biological, and high-salinity samples often introduce matrix effects that skew results. Custom ICP standards can be formulated to mimic your sample environment, improving calibration accuracy and enhancing data reliability across complex matrices.

Multi-Element: > 10 Elements

	[▦]								[ppm]
Multi-Element Alternate Metals RM (11E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13844.0100 CL01.13844.0500	AC18.20364.0100 AC18.20364.0500	11	Al, Fe, V Co, Cu, Mn, Ni, Zn Sb, Be	20 10 5
Multi-Element Drinking Water RM (11E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13834.0100 CL01.13834.0500	AC18.20358.0100 AC18.20358.0500	11	As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Sb	10
Multi-Element Alternate Metals CRM (11E)	2% HNO_3	★	≋ ⊹	125 mL 250 mL 500 mL	140-107-011 140-107-012 140-107-015	AC18.06182.0125 AC18.06182.0250 AC18.06182.0500	11	Al, Fe, V Be, Sb, Tl Co, Cu, Mn, Ni, Zn	20 5 10
Multi-Element Wavelength Calibration CRM WaveCal (11E)	2% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-128-111 140-128-112 140-128-115	AC18.07649.0125 AC18.07649.0250 AC18.07649.0500	11	As, La, Li, Mn, Mo, Na, Ni, Sc K, P, S	20 100
EPA 6020 Multi-Element Interference Check CRM (11E)	5% HNO_3	★	≔	125 mL 250 mL 500 mL	140-118-051 140-118-052 140-118-055	AC18.06207.0125 AC18.06207.0250 AC18.06207.0500	11	Al, K, Mg, P, S C Ca Fe, Na Mo, Ti	1000 2000 3000 2500 20
EPA 6020 Multi-Element Interference Check CRM (11E)	5% HNO_3	★	≔	125 mL	140-118-061	AC18.14248.0500	11	Ag As, Cd, Se, Zn Co, Cr, Cu, Mn, Ni, V	5 10 20
Multi-Element Calibration CRM (11E)	5% HNO_3 + traces HCl	★	⊹	(2x25 mL) 125 mL 500 mL	140-130-330 140-130-331 140-130-335	AC18.07617.0002 AC18.07617.0125 AC18.07617.0500	11	Ba, Be, Ce, Co, In, K, Li, Mg, Pb, Rh, U	10
Multi-Element Standard (11E)	3% HNO_3	▲	⊹	100 mL 500 mL	31994.0000 31994.2000	AC18.14248.0500	11	Al, Ca, Cr, Cu, Fe, Mg, Na, Ni, Zn K, P	50 100

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Matrix – The solution base or solvent used
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Functional categories (Multi-Element Standards)
Volume or quantity supplied
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Specific element(s) present in the solution
Composition
Element concentration level in the matrix

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	[ ]								[ppm]
Multi-Element Standard (11E)	6% HNO_3	▲	⊹	100 mL	02579.0300	AC18.14248.0500	11	Bi, Y, Zn Co, Dy, Tm Cr, Eu Cs K S	10 20 30 80 50 100
Multi-Element Ocean Standard (11E)	10% HCl with traces HF	▲	≋	100 mL	33585.0000	AC18.02181.0100	11	Ag, Ge, Mo, Nb, Sb, Sn, Te, Ti, W, Zr S	5 40000
Multi-Element Tuning CRM (11E)	0.1% HF	★	⇱	125 mL 500 mL	140-135-031 140-135-035	AC18.06254.0125 AC18.06254.0500	11	B, Ge, Mo, Nb, P, Re, S, Si, Ta, Ti, W	10
EPA 200.11 Multi-Element LFSS RM (11E)	5% HNO_3	✦	≔	500 mL 100 mL	CL01.13856.0500 CL01.13856.0100	AC18.20372.0500 AC18.20372.0100	11	Al, As, Se, Zn Be Cd Cr Sb, Cu, Pb, Ni	50 2.5 5 10 25
Multi-Element CRM (11E)	3% HNO_3	★	⊹	250 mL	AQ0-084-602	AC18.23337.0250	11	Al, Cu B Ca Fe, Pb K Mg Na P Zn	5 250 50 25 2500 10 5000 1000 20
Multi-Element CRM (11E)	3% HNO_3	★	⊹	250 mL	AQ0-084-612	AC18.23346.0250	11	Al B Ca Cu, Fe, Pb, Zn K Mg Na P	10 1000 32 50 5000 20 10000 2000
Multi-Element CRM (12E)	5% HNO_3	★	⊹	500 mL	600-154-902	AC18.07994.0500	12	Al, Ca, Fe, K, Mg, Na, Ni, P, Pb, Si, V, Zn	100

	[ ]								[ppm]
Multi-Element CRM (12E)	5% HNO_3 + 0.1% HF	★	⊹	500 mL	600-318-709	AC18.23335.0500	12	Al, Ca, Fe, Na, Ni, Si K, Mg, P, Pb, Zn V	1000 500 2000
Multi-Element CRM (12E)	5% HNO_3 + 0.1% HF	★	⊹	500 mL	AQ0-022-325	AC18.04930.0500	12	Al, Ca, Cu, Fe, K, Mg, Na, Ni, P, Si, V, Zn	1000
Multi-Element Internal RM (12E)	5% HNO_3	✦	≔ ☑	500 mL 100 mL	CL01.13684.0500 CL01.13684.0100	AC18.23341.0500 AC18.20315.0100	12	Al, As, B, Mo, Na, Sb, Se Ca, Fe, Mg, Si	100 10
Multi-Element Interference Check CRM (12E)	5% HNO_3	★	⤭	125 mL 500 mL	140-118-021 140-118-025	AC18.06791.0125 AC18.06791.0500	12	Ag, Cd, Pb, Ni, Zn Ba, Be, Co, Cr, V, Cu, Mn	100 50
Multi-Element CRM (12E)	2% HNO_3	★	⇖	125 mL 250 mL 500 mL	140-103-041 140-103-042 140-103-045	AC18.06661.0125 AC18.06661.0250 AC18.06661.0500	12	Al, As, Cu, Mn, Na, Ni, P, Pb, Sc, Zn Ba K	10 1 50
Multi-Element Spike CRM (12E)	5% HNO_3	★	☑	125 mL 500 mL	140-119-021 140-119-025	AC18.06209.0125 AC18.06209.0500	12	Ag, Be Al, Ba Co, Mn, Ni, V, Zn Cr Cu Fe	50 2000 500 200 250 1000
Multi-Element Verification CRM (12E)	5% HNO_3	★	⊹	125 mL 500 mL	140-115-011 140-115-015	AC18.06199.0125 AC18.06199.0500	12	Ag Ba, Co, Cu, Fe, Mn, Ni, Pb, Tl, Zn Be Cd	20 100 40 50
Multi-Element Interference Check CRM (12E)	5% HNO_3	★	⤭	125 mL 500 mL	140-118-041 140-118-045	AC18.06793.0125 AC18.06793.0500	12	Al, As, B, Mo, Na, Sb, Se, Tl Ca, Fe, Mg, Si	100 10

	[ ]								[ppm]
Multi-Element CRM (12E)	5% HNO_3	★	⊹	125 mL 500 mL	140-130-311 140-130-315	AC18.06227.0125 AC18.06227.0500	12	Al, As, Cd, Cu, K, Mn, Pb, S, Se, Tl, Zn Ba	100 10
Multi-Element Verification CRM (12E)	5% HNO_3	★	⊹	125 mL 500 mL	140-116-011 140-116-015	AC18.06201.0125 AC18.06201.0500	12	Ag Be Cd Ba, Co, Cu, Fe, Mn, Ni, Pb, Tl, Zn	100 200 250 500
Multi-Element Standard (12E)	6% HNO_3	▲	⊹	500 mL	02135.2000	AC18.01343.0500	12	Al, As, Ba, Co, Fe, Hg, K, Mg, Mn, Na, Tl, V	100
Multi-Element Calibration CRM (12E)	traces of HNO_3 + 0.2% HF	★	⊹	125 mL	140-109-131	AC18.07621.0125	12	B, Ge, Mo, Nb, P, Re, S, Si, Ta, Ti, W, Zr	10
Multi-Element Wavelength Calibration CRM WaveCal (12E)	traces of HNO_3 + 5% HCl	★	⊹	125 mL 500 mL	140-128-421 140-128-425	AC18.06807.0125 AC18.06807.0500	12	As, La, Li, Mn, Mo, Na, Ni, Sc Ca K, P, S	20 1 100
EPA 200.7 Multi-Element RM (12E)	2% HNO_3	✦	≔ ≋	500 mL 100 mL	CL01.13743.0500 CL01.13743.0100	AC18.20335.0500 AC18.20335.0100	12	Ag, Be Al, Ba Cr Cu Co, Mn, Ni, V, Zn Fe	50 2000 200 250 500 1000
Multi-Element Internal RM (12E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13686.0100 CL01.13686.0500	AC18.20317.0100 AC18.20317.0500	12	Ag, Cd, Ni, Pb, Zn Ba, Be, Co, Cr, Cu, Mn, V	100 50
EPA 6010 Multi-Element Internal RM (12E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13682.0100 CL01.13682.0500	AC18.20313.0100 AC18.20313.0500	12	Ag, Cd, Ni, Pb, Zn Ba, Be, Co, Cr, Cu, Mn, V	100 50
Multi-Element MISA RM (13E)	10% HNO_3	✦	≔	100 mL 500 mL	CL01.13866.0100 CL01.13866.0500	AC18.02491.0100 AC18.02491.0500	13	Cd, Co, Cu, Cr, Fe, Pb, Mn, Hg, Ni, Ag, V, Zn	100

	[ ]								[ppm]
Multi-Element CRM NexION (13E)	2% HNO_3	★	↖	125 mL	140-130-431	AC18.06234.0125	13	Al, Ba, Ce, Co, In, Li, Mg, Mn, Ni, Pb, Tb, U, Zn	0.05
Multi-Element CRM (13E)	5% HNO_3	★	⊹	500 mL	140-130-095	AC18.11685.0500	13	Ag, Al, Be, Cd, Co, Cr, Cu, Mo, Ni, Pb, Tl, V, Zn	1000
Multi-Element Coolant Standard (13E)	4% HCl + 7% HNO_3	▲	↖	100 mL 500 mL	32284.0000 32284.2000	AC18.06807.0125	13	Al Ca, P Cr, Mn Cu, Ni, Pb, S, Sr, Zn Fe Mg	3000 1000 100 200 500 400
Multi-Element Drinking Water RM (14E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13832.0100 CL01.13832.0500	AC18.20356.0100 AC18.20356.0500	14	As, Ca, Si, Na, Sb Ba, Be, Cd, Cr, Cu, Pb, Ni, Se	100 10
USP 232/ICH Q_3D Multi-Element CRM (14E)	10% HNO_3 + 0.1% HF	★	≔	(2x25 mL) 125 mL 500 mL	140-131-330 140-131-331 140-131-335	AC18.07642.0002 AC18.07642.0125 AC18.07642.0500	14	As, Cd Ba Co, Cr Cu Hg, V Li Mo Ni, Pb Sb Sn	2 300 3 30 1 25 10 5 20 60
USP 232/ICH Q_3D Multi-Element CRM (14E)	10% HNO_3 + 1% HF	★	≔	(2x25 mL) 125 mL 500 mL	140-131-370 140-131-371 140-131-375	AC18.23308.0002 AC18.23308.0125 AC18.23308.0500	14	As, Cd Ba Co, Cr Cu Hg, V Li Mo Ni Pb Sb Sn	2 300 3 30 1 25 10 6 5 20 60

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	[ ]								[ppm]
Multi-Element CRM NexION (14E)	2% HNO_3	★	↖	125 mL	140-130-521	AC18.06237.0125	14	Al, Ba, Ce, Co, Cu, In, Li, Mg, Mn, Ni, Pb, Tb, U, Zn	0.2
Multi-Element CRM (14E)	5% HNO_3	★	⊹	125 mL 500 mL	140-117-011 140-117-015	AC18.11705.0125 AC18.11705.0500	14	Ag, As, Cr Be, Cd, Se Co, V Cu Mn Ni Pb Sb Zn	20 10 100 50 30 80 6 120 40
Multi-Element Tuning CRM Varian (14E)	5% HNO_3	★	↖	125 mL 500 mL	140-130-341 140-130-345	AC18.06228.0125 AC18.06228.0500	14	Al, As, Ba, Cd, Co, Cr, Mn, Mo, Ni, Pb, Se, Sr, Zn K	50 500
Multi-Element Wavelength Calibration CRM (14E)	5% HNO_3	★	⊹	(2x25 mL) 125 mL 250 mL 500 mL	140-130-350 140-130-351 140-130-352 140-130-355	AC18.06229.0025 AC18.06229.0125 AC18.06229.0250 AC18.06229.0500	14	Al, As, Ba, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sr Zn	50 500
Multi-Element CRM (15E)	2% HNO_3	★	↖	125 mL 250 mL 500 mL	140-103-051 140-103-052 140-103-055	AC18.06171.0125 AC18.06171.0250 AC18.06171.0500	15	Al, As, Co, Cr, K, Mg, Na, Ni, Pb, Cd, Cu, Fe, Mn, Zn Y	100 608
Multi-Element Trace Metals CRM (15E)	5% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-106-011 140-106-012 140-106-015	AC18.06178.0125 AC18.06178.0250 AC18.06178.0500	15	Al As, Be, Co, Cr, Cu, Fe, Mn, Ni, Pb, Zn Cd, Se Hg V	500 100 25 5 250
Multi-Element Tuning Varian Standard (15E)	5% HNO_3	▲	↖	100 mL 500 mL	27704.0000 27704.2000	AC18.01731.0100 AC18.01731.0500	15	Al, As, Ba, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sr, Zn K	50 500

	[ ]								[ppm]
Multi-Element MISA RM (15E)	2% HNO_3 + traces HF	✦	≔	100 mL 500 mL	CL01.13865.0100 CL01.13865.0500	AC18.02490.0100 AC18.02490.0500	15	B, Ge, Hf, Mo, Nb, P, Re, Si, S, Ta, Sb, Sn, Ti, W, Zr	100
Multi-Element Trace Metals RM (15E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13841.0100 CL01.13841.0500	AC18.02485.0100 AC18.02485.0500	15	Al As, Be, Cr, Co, Cu, Fe, Pb, Mn, Ni, Zn Cd, Se Hg V	500 100 25 5 250
Multi-Element Quality Control RM (15E)	5% HNO_3	✦	☑	100 mL 500 mL	CL01.13603.0100 CL01.13603.0500	AC18.02454.0100 AC18.02454.0500	15	Al, Ba, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Na, Ti, Zn	100
Multi-Element Wavelength Calibration CRM (15E)	5% HNO_3	★	⊹	125 mL 250 mL 500 mL	140-130-541 140-130-542 140-130-545	AC18.06682.0125 AC18.06682.0250 AC18.06682.0500	15	Al, As, Ba, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sr, Zn K	5 50
Multi-Element CRM (15E)	5% HNO_3	★	⊹	500 mL	AQ0-107-285	AC18.23344.0500	15	Al, As, Ca, Cu, Fe, K, Mg, Mn, Na, Ni, P, Pb, Si, V, Zn	10
Multi-Element CRM (15E)	12% HNO_3 + 3HCl	★	⊹	4000 mL	C00-001-830	AC18.23336.4000	15	As, Bi, Cd, Sb, Se, Te, Tl Ca, Co, Mg, Ni, Pb Cu, Zn Fe	50 100 250 1500
Multi-Element CRM Spectro IQ/OQ / Spectro (16E)	5% HNO_3	★	⇱	125 mL	140-128-411	AC18.06225.0125	16	As, Au, Be, Cd, Ce, Dy, Ga, Lu, Mn, Mo, Nb, Se, Ta, Tl, Zr La	250 1000

	[ ]								[ppm]
Multi-Element Spike CRM (16E)	5% HNO_3	★	☑	125 mL 500 mL	140-119-051 140-119-055	AC18.06795.0125 AC18.06795.0500	16	Ag, Be, Cd As, Ba, Se, Tl Co, Mn, Ni, Pb, Sb, V, Zn Cr Cu	10 400 100 40 50
Multi-Element CRM (16E)	5% HNO_3	★	≔	125 mL 500 mL	140-117-021 140-117-025	AC18.06096.0100 AC18.06096.0500	16	Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl, V Ba Cr, Cu, Sb, Zn Se	10 100 20 50
Multi-Element Standard (16E)	6% HNO_3	▲	⊹	250 mL	12288.1000	AC18.11817.0125	16	Ag, Ba, Co, Cr, Cu, Mn, Ni, Pb, V, Zn Al, Fe As, Se Cd P	10 100 25 1 50
EPA 6010 Multi-Element Internal RM (17E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13811.0100 CL01.13811.0500	AC18.20350.0100 AC18.20350.0500	17	As, Pb Ba, Cd, Cr, Co, Cu, Ni, Ag, V, Zn Be Hg K Mn Se	1000 300 100 50 20000 200 500
Multi-Element Verification RM (16E)	5% HNO_3	✦	≔ ☑	100 mL 500 mL	CL01.13656.0100 CL01.13656.0500	AC18.20302.0100 AC18.20302.0500	16	Al, Ba Ag, Cr Be Ca, K, Mg, Na Co, V Cu Fe Mn Ni Zn	1000 50 25 2500 250 125 500 75 200 100

	[▦]								[ppm]
Multi-Element MISA RM (16E)	10% HNO_3	✦	≔	100 mL 500 mL	CL01.13864.0100 CL01.13864.0500	AC18.13271.0100 AC18.13271.0500	16	Al, As, Ba, Be, Bi, Ca, Cs, Ga, In, Li, Mg, K, Rb, Se, Na, Sr	100
USP 232/ICH Q_3D Multi-Element CRM (17E)	10% HNO_3 + 0.1% HF	★	≔	2x25 mL 125 mL 500 mL	140-131-300 140-131-301 140-131-305	AC18.06251.0002 AC18.06251.0125 AC18.06251.0500	17	Ag As, Cd Ba Co, Cr Cu Hg, V Li Mo Ni, Pb Se Sb Sn Tl	8 3 300 4 30 2 25 11 6 130 20 60 9
USP 232/ICH Q_3D Multi-Element CRM (17E)	10% HNO_3 + 1% HF	★	≔	(2x25 mL) 125 mL 500 mL	140-131-350 140-131-351 140-131-355	AC18.23306.0002 AC18.23306.0125 AC18.23306.0500	17	Ag As, Cd Ba Co, Cr Cu Hg, V Li Mo Ni Pb Sb Se Sn Tl	7 2 300 3 30 1 25 10 6 5 20 130 60 8
Multi-Element Interference Check CRM (17E)	5% HNO_3	★	⤮	125 mL 250 mL 500 mL	140-104-011 140-104-012 140-104-015	AC18.06172.0125 AC18.06172.0250 AC18.06172.0500	17	Ag, Ba, Cd, Co, Cr, Cu, Ni, V, Zn As, Pb, Tl Be Hg K Mn Se	30 100 10 5 2000 20 50

✦ ISO 17034
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▲ Analytical Standard

⊹ Calibration & Verification Standards
☑ Quality Control & Performance Check Standards
Instrument Performance & Tuning Solutions
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≋ Environmental Water Standards
⤮ Internal & Interference Correction Standard

Description of the chemical standard
[▦] Matrix – The solution base or solvent used
Compliance status with relevant ISO standards
Functional categories (Multi-Element Standards)
Volume or quantity supplied
Legacy Item Number
Current product identification code
Count of elements included in the standard
Specific element(s) present in the solution
Composition
[ppm] Element concentration level in the matrix

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[ppm] Element concentration level in the matrix

	[ ]								[ppm]
Multi-Element Calibration CRM (17E)	5% HNO_3	★	⊹	125 mL	140-109-101	AC18.06185.0125	17	Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb	10
Multi-Element Bernd Kraft Rare earth RM (17E)	6% HNO_3	✦	⇱	100 mL	34038.0000	AC18.02295.0100	17	Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Tm, U, Y, Yb	100
Multi-Element Standard (17E)	5% HNO_3	▲	⊹	100 mL	33587.0000	AC18.02182.0100	17	Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Tm, U, Y, Yb	100
Multi-Element Standard (17E)	6% HNO_3	▲	⊹	500 mL	02426.2000	AC18.01351.0500	17	Al, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb, V, Zn B, Mo Ca, K, Mg, Na	50 10 500
Multi-Element CRM (17E)	5% HNO_3 + 0.1% HF	★	⊹	250 mL	AQ0-115-852	AC18.23342.0250	17	Al, As, Ca, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Si, V, Zn	250
EPA 200.8 Multi-Element CRM (18E)	5% HNO_3	★	≔	(2x25 mL)	AQ0-080-340	AC18.23349.0002	18	Ag, Al, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Tl, Th, U, V, Zn	20
EPA 200.11 Multi-Element RM (18E)	5% HNO_3	✦	≔	100 mL 500 mL	CL01.13855.0100 CL01.13855.0500	AC18.20371.0100 AC18.20371.0500	18	Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Ni, Se, Zn Ca, Mg, Na P, K	10 20 100

	[ ]								[ppm]
Multi-Element Spike CRM (18E)	5% HNO_3	★	☑	125 mL 500 mL	140-119-011 140-119-015	AC18.06208.0125 AC18.06208.0500	18	Ag, Be, Cd Al, As, Ba, Se, Tl Co, Mn, Ni, Pb, Sb, V Cr Cu Fe Zn	5 200 50 20 25 100 55
Multi-Element Calibration CRM (19E)	5% HNO_3	★	⊹	500 mL	140-128-002	AC18.07646.0500	19	As, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Ti, Tl, V, Zn	10
Multi-Element Drinking Water RM (19E)	2% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13831.0100 CL01.13831.0500	AC18.13654.0100 AC18.13654.0500	19	Al, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn Sb, As, Ca, Fe, Si, Na	10 100
Multi-Element Quality Control RM (19E)	2 to 5% HNO_3 + traces HF	✦	☑	100 mL 500 mL	CL01.13608.0100 CL01.13608.0500	AC18.02459.0100 AC18.02459.0500	19	Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ti, V, Zn	100
Multi-Element Quality Control RM (19E)	2 to 5% HNO_3	✦	☑	100 mL 500 mL	CL01.13604.0100 CL01.13604.0500	AC18.02455.0100 AC18.02455.0500	19	Ag, Ni Al B, Fe Ba, Mn Be, Sr Bi, In, Pb Cd, Co, Cu, Zn Cr Ga	50 100 15 5 1 200 20 25 150
Multi-Element Quality Control CRM (19E)	5% HNO_3	★	☑	2x25 mL 125 mL 250 mL 500 mL	140-102-010 140-102-011 140-102-012 140-102-015	AC18.06165.0002 AC18.06165.0125 AC18.06165.0250 AC18.06165.0500	19	As, Ca, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Tl, Zn, Be, Cd, Se, Ti, V	100

	[ ]								[ppm]
Multi-Element Standard (19E)	HNO_3 2%	▲	⊹	500 mL	18275.2000	AC18.01351.0500	19	Al, Ca, Cd, Co, Cr, Cu, Fe, Li, V Ba, Be, Mg, Mn, Sr K, Na Ni, Zn Pb	20 10 200 50 100
Multi-Element CRM (20E)	5% HNO_3	★	≔	125 mL 500 mL	140-117-031 140-117-035	AC18.06097.0100 AC18.06097.0500	20	Al, Ba As, Cr, Pb Be, Cd Ca, K, Mg Co, V Cu, Tl Fe Mn Ni Se Sb, Zn	200 10 5 5000 50 25 100 15 40 35 60
Multi-Element Standard (20E)	6% HNO_3	▲	⊹	500 mL	03767.2000	AC18.04930.0500	20	Ag, Ni Al B, Fe Ba, Mn Be, Sr Bi, In, Pb Cd, Co, Cu, V, Zn Cr Ga Tl	50 100 15 5 1 200 20 25 150 400
Multi-Element Ocean Standard (20E)	6% HNO_3	▲	≋	100 mL	33215.0000	AC18.02098.0100	20	Al, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Hg, La, Li, Mn, Ni, P, Pb, Se, Tl, V, Zn	10
Multi-Element Quality Control RM (21E)	2 to 5% HNO_3 + traces HF	✦	☑	100 mL 500 mL	CL01.13609.0100 CL01.13609.0500	AC18.02460.0100 AC18.02460.0500	21	Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Mo, Ni, Se, Sr, Ti, V, Zn	100

	[ ]								[ppm]
Multi-Element Quality Control CRM (21E)	5% HNO_3	★	☑	2x25 mL 125 mL 250 mL 500 mL	140-102-050 140-102-051 140-102-052 140-102-055	AC18.05667.0025 AC18.05667.0125 AC18.05667.0250 AC18.05667.0500	21	As, Ca, Li, Tl, Be, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, V, Zn	100
Multi-Element Standard (21E)	HCl 30% HCl	▲	⊹	500 mL	15554.2000	AC18.01439.0500	21	Al, As, Cd, Co, Cr, Cu, Fe, K, Li, Mn, Na, Ni, P, Pb, Sb, Sn, Zn Ba, Ca, Mg, Sr	10 2
Multi-Element Standard (21E)	20% HCl	▲	⊹	500 mL	02232.2000	AC18.02817.0500	21	Ag Al, In, Se, Te, Tl As, Bi, Cr, Mn, Pb Ca, Sb Cd, Hg, Ni, Zn Co, Fe Cu Sc	10 500 200 300 100 50 400 5
EPA 200.7 Multi-Element LFSS RM (22E)	5% HNO_3 + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13712.0100 CL01.13712.0500	AC18.20324.0100 AC18.20324.0500	22	Ag Al, As, Ba, Be, B, Cd, Ce, Cr, Co, Cu, Fe, Pb, Li, Mn, Ni, P, Se, V, Zn K	7.5 20 500
Multi-Element Verification RM (22E)	5% HNO_3	✦	≔ ☑	100 mL 500 mL	CL01.13655.0100 CL01.13655.0500	AC18.02471.0100 AC18.02471.0500	22	Ag, As, Cr Al, Ba Be, Cd, Pb, Se Ca, K, Mg, Na Co, V Cu Fe Mn Ni Sb Zn	10 200 5 500 50 25 100 15 40 60 20

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Description of the chemical standard
[ ] Matrix – The solution base or solvent used
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Functional categories (Multi-Element Standards)
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Specific element(s) present in the solution
Composition
[ppm] Element concentration level in the matrix

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Element concentration level in the matrix

	[ ]								[ppm]
Multi-Element Verification RM (22E)	5% HNO_3	✦	≔ ☑	100 mL 500 mL	CL01.13651.0100 CL01.13651.0500	AC18.02469.0100 AC18.02469.0500	22	Ag, As, Cr Al, Ba Be, Cd, Pb, Se Ca, K, Mg, Na Co, V Cu Fe Mn Ni Sb Zn	10 200 5 5000 50 25 100 15 40 60 20
Multi-Element Tuning CRM GENESIS/ARCOS (22E)	2% HCl + 2% HNO_3	★	⇱	(2x25 mL) 125 mL 250 mL 500 mL	140-128-300 140-128-301 140-128-302 140-128-305	AC18.02838.0002 AC18.02838.0125 AC18.02838.0250 AC18.02838.0500	22	Be, Li, Sr Ca Ce, Cu, Eu, Fe, In, K, Ni, P, Si, Ti, V, Y, Zr Mn, Mo, Na, Sc S	2 1 10 5 50
Multi-Element CRM PlasmaQUAL (22E)	5% HNO_3	★	☑	125 mL 250 mL 500 mL	140-102-061 140-102-062 140-102-065	AC18.07615.0125 AC18.07615.0250 AC18.07615.0500	22	Al, Cd, Co, Cr, Cu, Fe, Mn, Na, Ni, Pb, V, Zn As, K, Se, Tl Ba, Ca, Li, Mg, Sr, Ti	100 1000 10
Multi-Element Standard (22E)	65% HNO_3	▲	⊹	500 mL	11169.2300	AC18.01381.0500	22	Ag, B, Ba, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Sr, Ti, V, Zn Al, Mg, P, Pb Ca, K, Na	1 10 100

	[ ]								[ppm]
Multi-Element Standard (22E)	12% HNO_3	▲	-:-	500 mL	02068.2000	AC18.01341.0500	22	Al Ag, Ni B, Fe Ba, Mn Be, Sr Bi, In, Pb Ca, Mg Cd, Co, Cu, V, Zn Cr Ga Tl	100 50 15 5 1 200 500 20 25 150 400
EPA 6020 Multi-Element Tuning CRM (22E)	5% HNO_3	★	≔	(2x25 mL)	AQ0-202-610	AC18.23355.0002	22	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn	20
EPA 6020 Multi-Element CRM (22E)	2% HNO_3	★	≔	(2x25 mL)	AQ0-255-360	AC18.23356.0002	22	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn	10
Multi-Element Quality Control RM (23E)	2 to 5% HNO_3 + traces HF	✦	☑	100 mL 500 mL	CL01.13610.0100 CL01.13610.0500	AC18.02461.0100 AC18.02461.0500	23	Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Na, V, Zn K	100 1000
EPA 6010 Multi-Element Quality Control RM (23E)	5% HNO_3	✦	≔ ☑	100 mL 500 mL	CL01.13601.0100 CL01.13601.0500	AC18.02453.0100 AC18.02453.0500	23	As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Mo, Ni, P, Se, Sb, Sr, Sn, Ti, V, Zn	100

	[ ]								[ppm]
Multi-Element CRM (23E)	10% HNO_3	★	⊹	100 mL 500 mL	140-117-041 140-117-045	AC18.06098.0100 AC18.06098.0500	23	Ag, Cr, Pb Al, Ba As, Mn Be, Cd Ca, K, Mg, Na Co, Li, Sr, V Cu, Tl Fe Ni Se Zn	10 200 15 5 5000 50 25 100 40 35 60
Multi-Element KoWa Standard (23E)	HNO_3 1% and HCl 3%	▲	⊹	500 mL	20230.2000	AC18.01577.0500	23	Al, K, Na As, Mo, Sb, Se, Sn, Tl, V B, Cu, Cr, Ni, Pb, Mn Be Ca Cd, Co Mg, P Zn	1000 2 20 0.2 5000 1 500 50
Multi-Element Ocean Standard (23E)	6% HNO_3	▲	≋	100 mL	33584.0000	AC18.02180.0100	23	Al, As, Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Ga, Hg, In, La, Li, Mn, Ni, P, Pb, Se, Tl, V, Zn	10
EPA 200.7 Multi-Element LFSS RM (24E)	5% HNO_3 + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13713.0100 CL01.13713.0500	AC18.20325.0100 AC18.20325.0500	24	As, Ba, Be, B, Cd, Ca, Ce, Cr, Co, Cu, Fe, Pb, Li, Mn, Ni, P, Se, Na, Sr, V, Zn Ag Cd, Co, Mo, Sn, V	20 7.5 10

	[ ]								[ppm]
EPA 200.7 Multi-Element LFSS RM (25E)	5% HNO_3 + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13772.0100 CL01.13772.0500	AC18.20343.0100 AC18.20343.0500	25	K Ag Al, Sb, As, Ba, Be, B, Cr, Cu, Fe, Pb, Li, Mn, Ni, Se, Si, Sr, Zn P	500 2.5 25 50
Multi-Element Calibration CRM (25E)	10% HNO_3	★	⊹	125 mL 500 mL	140-109-141 140-109-145	AC18.07103.0125 AC18.07103.0500	25	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn Ca, Fe, K, Mg, Na	10 1000
Multi-Element iCAP Q Setup CRM (25E)	2% HNO_3 + traces HF	★	⊹	125 mL 250 mL 500 mL	140-130-491 140-130-492 140-130-495	AC18.06236.0125 AC18.06236.0250 AC18.06236.0500	25	Ag, Mn Al, Ga, Mg Ba, Tl Be Bi, Ce, Cs, Ho, In, Rh, Ta, Tb, U, Y Co, Li, Sc Cu, Ni Zn Sr	0.006 0.01 0.004 0.035 0.003 0.008 0.015 0.02 0.005
Multi-Element Verification CRM (25E)	5% HNO_3	★	⊹	125 mL 250 mL 500 mL	141-110-011 141-110-012 141-110-015	AC18.06683.0100 AC18.06683.0250 AC18.06683.0500	25	Al, As, Ba, Be, Bi, Ca, Cd, Cr, Co, Cu, Fe, Ga, Pb, Li, Mg, Mn, Ni, K, Se, Ag, Na, Sr, Tl, V, Zn	10

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Compliance status with relevant ISO standards

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Volume or quantity supplied

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Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

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Element concentration level in the matrix

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	[ ]								[ppm]
Multi-Element Standard (25E)	HCl about 20% with 10 µl bromine/l	▲	⊹	500 mL	02115.2000	AC18.01342.0500	25	Ag Al, Ca, K, Mg, Na, Se, P As, Cr, Sb, Te, Zn Fe, Mn, Ni, Pb Hg, Bi, Cd, Cu In S Sc Tl	10 200 100 30 50 300 500 5 60
Multi-Element Standard (25E)	6% HNO_3	▲	⊹	100 mL	20205.0000	AC18.01575.0100	25	Al, Ca, Fe As, B, Ba, Ge, Mo, Sb, Se, Sn, Te Be, Cd Bi Co, V Cr, Cu, Ni, Pb K Na, P Zn	300 100 20 50 200 250 1000 2000 500
Multi-Element Bernd Kraft Drinking Water RM (25E)	6% HNO_3	✦	⇱ ≋	100 mL	34035.0300	AC18.02292.0100	25	As, Ba, Ni, V, Zn B, Fe, Mo, Sr Be, Cd, Co, Cr, Cu, Pb Bi, Hg, Sb, Se, Tl Ca K Mg Mn Na	0.05 0.1 0.02 0.01 35 3 15 0.03 8

	[ ]			500 mL	17798.2000	AC18.06891.0500	25	Ag, Ba, Co, Cr, Cu, Li, Mo, Ni, Pb, Se, Sr, Te, V Al, Zn As, Cd, Tl B, Mn Ca Fe, K, Mg Na	10 25 2.5 50 2500 100 500
Multi-Element Varian Standard (25E)	HNO_3 2% + 0.1 mL/l of HF 40%	▲	-⊹-						
EPA 200.7 Multi-Element Performance Check RM (26E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13721.0100 CL01.13721.0500	AC18.02479.0100 AC18.02479.0500	26	Ag Al, As, Ba, Be, B, Cd, Ca, Ce, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Ni, Se, Na, Sr, V, Zn P, K	2.5 20 100
EPA 200.7 Multi-Element LFSS RM (26E)	5% HNO_3 + traces HF	✦	≔ ≋	100 mL 500 mL	CL01.13711.0100 CL01.13711.0500	AC18.02477.0100 AC18.02477.0500	26	Ag Al, As, Ba, Be, B, Cd, Ca, Ce, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Ni, P, Se, Na, Sr, V, Zn K	7.5 20 500
Multi-Element Verification CRM (26E)	5% HNO_3	★	-⊹-	125 mL 250 mL 500 mL	140-115-031 140-115-032 140-115-035	AC18.06676.0125 AC18.06676.0250 AC18.06676.0500	26	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn Ca, Fe, K, Mg, Na Sr	10 1000 100

	[ ]								[ppm]
Multi-Element Quality Control CRM (26E)	5% HNO_3	★	☑	(2x25 mL) 125 mL 250 mL	140-102-040 140-102-041 140-102-042	AC18.06168.0002 AC18.06168.0125 AC18.06168.0250	26	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Ti, Tl, V, Zn K Si	100 1000 50
Multi-Element Quality Control RM (27E)	2 to 5% HNO_3 + traces HF	✦	☑	100 mL 500 mL	CL01.13612.0100 CL01.13612.0500	AC18.02462.0100 AC18.02462.0500	27	Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Si, Ag, Sr, Na, Ti, V, Zn	100
Multi-Element Calibration CRM (27E)	5% HNO_3	★	⊹	125 mL 500 mL	140-109-111 140-109-115	AC18.06186.0125 AC18.06186.0500	27	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn	10
Multi-Element Standard (27E)	6% HNO_3	▲	⊹	500 mL	18806.2000	AC18.06905.0500	27	Ag, B, Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Rb, Se, Sr, Te, Tl, V, Zn As Ca K, Na	10 100 10000 1000

	[ ]								[ppm]
Multi-Element Bernd Kraft Calibration RM(27E)	6% HNO_3	✦	⊹	100 mL	34033.0000	AC18.02290.0100	27	As, Al, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Se, Sr, Te, Tl, V, Zn	100
Multi-Element Calibration CRM (28E)	5% HNO_3	★	⊹	(2x25 mL) 125 mL 250 mL 500 mL	140-130-300 140-130-301 140-130-302 140-130-305	AC18.06226.0002 AC18.06226.0125 AC18.06226.0250 AC18.06226.0500	28	Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	100
EPA 200.7 Multi-Element RM (29E)	5% HNO_3	✦	≔ ≋	100 mL 500 mL	CL01.13771.0100 CL01.13771.0500	AC18.02483.0100 AC18.02483.0500	29	Ag Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Mo, Ni, P, K, Se, Si, Na, Sr, Sn, V, Zn	5 20
Multi-Element Standard (29E)	6% HNO_3	▲	⊹	100 mL	15787.0000	AC18.01443.0100	29	Ag, Al, Ba, Bi, Cd, Co, Cr, Cu, Ga, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Rb, Sr, Te, Tl, V As, B, Be, Fe, Se, Zn Ca	10 100 1000
EPA 6010 Multi-Element RM (30E)	5% HNO_3 + traces HF	✦	≔	100 mL 500 mL	CL01.13774.0100 CL01.13774.0500	AC18.02484.0100 AC18.02484.0500	30	Ag Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Mo, Ni, Se, Na, Sr, Sn, Ti, V, Zn K, P, Si	5 20 100

★ ISO 17034
✦ ISO 17025
▲ Analytical Standard

⊹ Calibration & Verification Standards
☑ Quality Control & Performance Check Standards
Instrument Performance & Tuning Solutions
≔ Regulatory Methods
≋ Environmental Water Standards
Internal & Interference Correction Standard

Description of the chemical standard
[ ] Matrix – The solution base or solvent used
Compliance status with relevant ISO standards
Functional categories (Multi-Element Standards)
Volume or quantity supplied
Legacy Item Number
Current product identification code
Count of elements included in the standard
Specific element(s) present in the solution
Composition
[ppm] Element concentration level in the matrix

ISO 17034

ISO 17025

Analytical Standard

Calibration & Verification Standards

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Description of the chemical standard

Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

Element concentration level in the matrix

	[ ]								[ppm]
Multi-Element Standard (30E)	diluted HCl/HNO_3	▲	⊹	500 mL	10931.2000	AC18.01377.0500	30	Ag Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Tl, V, Zn, Sn K, P	5 20 100
EPA 6010 Multi-Element Calibration CRM (30E)	5% HNO_3 + 1% HF	★	≔	(2x25 mL)	AQ0-097-310	AC18.23351.0002	30	Ag Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn K, P, Si	5 20 100
Multi-Element CRM (31E)	5% HNO_3 + 10% HCl	★	⊹	500 mL	AQ0-196-045	AC18.23339.0500	31	Al, As, Au, B, Be, Bi, Cd, Co, Cr, Cu, Fe, Ga, Ge, In, Ir, Li, Mg, Mn, Ni, P, Pb, Pd, Pt, Re, Ru, Sb, Se, Si, Sn, Te, Zn	50
Multi-Element CRM (31E)	5% HNO_3 + 10% HCl	★	⊹	500 mL	AQ0-196-025	AC18.23343.0500	31	Al, As, Au, B, Be, Bi, Cd, Co, Cr, Cu, Fe, Ga, Ge, In, Ir, Li, Mg, Mn, Ni, P, Pb, Pd, Pt, Re, Ru, Sb, Se, Si, Sn, Te, Zn	5

	[ ]								[ppm]
Multi-Element Screening RM (33E)	2 to 5% HNO_3 + traces HF	✦	↖	100 mL 500 mL	CL01.13631.0100 CL01.13631.0500	AC18.02464.0100 AC18.02464.0500	33	Al, As, Ba, Bi, Ca, Cd, Ce, Dy, Er, Eu, Ga, Gd, Ho, In, La, Lu, Mg, Na, Nd, P, Pb, Pr, Sc, Se, Sm, Sr, Tb, Th, Tm, U, Y, Yb	10
EPA Multi-Element Bernd Kraft RM (33E)	acid mixture	✦	≔ ↖	100 mL	34034.0000	AC18.02291.0100	33	Ag Al, Au, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, Li, Mg, Mn, Mo, Na, Ni, Pb, Se, Si, Sn, Sr, Tl, V, Zn, Bi, Sb, Te K, P	5 20 <

									[ppm]
Multi-Element Thermo / MS Tuning CRM (62E)	2% HNO_3 + 2% HF	★	↖	125 mL 500 mL	140-130-511 140-130-515	AC18.07633.0125 AC18.07633.0500	62	Ag, Cr, Na, Sb, V Al, Ba, Mg As B Be, Te, Ti Bi, Ho, Lu, Ta, Tb, Th, Tm, U Ca, P, Si Cd, Li, Mo, Pd Ce, Eu, In, La, Pb, Pr, Tl Co, K, Zr Cs, Er, Hf, Re, Y Cu, Ge, Ni, Zn Dy, W, Yb Fe, Mn, Nb, Sr Ga, Gd, Nd, Sm, Sn Rb, Sc Se	0.04 0.05 0.25 0.2 0.5 0.005 1 0.1 0.01 0.035 0.015 0.15 0.025 0.02 0.045 0.03 1.25

	[ ]								[ppm]
Multi-Element Tuning CRM (55E)	5% HNO_3 + traces HF	★	↖	(2x25 mL) 125 mL	140-130-360 140-130-361	AC18.11743.0025 AC18.11743.0125	62	Ag, Cr, Na, Sb, V Al, Ba, Mg As B Be, Te, Ti Bi, Ho, Lu, Ta, Tb, Th, Tm, U Ca, P, Si Cd Ce, Eu, In, La, Pb, Pr, Tl Co, K, Zr Cs, Er, Hf, Re, Y Cu, Ge, Ni, Zn Dy, W, Yb Fe, Mn, Nb, Sr Ga, Gd, Nd, Sm, Sn Li, Mo, Pd Rb, Sc Se	40 50 250 200 500 5 1000 100 10 35 15 150 25 20 45 100 30 1250

ISO 17034

ISO 17025

Analytical Standard

Calibration & Verification Standards

Quality Control & Performance Check Standards

Instrument Performance & Tuning Solutions

Regulatory Methods

Environmental Water Standards

Internal & Interference Correction Standard

Description of the chemical standard

Matrix – The solution base or solvent used

Compliance status with relevant ISO standards

Functional categories (Multi-Element Standards)

Volume or quantity supplied

Legacy Item Number

Current product identification code

Count of elements included in the standard

Specific element(s) present in the solution

Composition

Element concentration level in the matrix

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Description of the chemical standard

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Composition

Element concentration level in the matrix

Other Relevant Regulatory Methods Deep Dive

AnalytiChem's ICP standards portfolio includes a wide selection of catalogue products that support laboratories working under major regulatory frameworks such as DIN 38406, USP <232>, and MISA programs. For water, wastewater, and sludge analysis governed by DIN 38406, laboratories frequently determine specific metal cations such as calcium, magnesium, cobalt, zinc, cadmium, lead, copper, thallium, and others depending on the specific part of the method series; these analytes fall directly within the scope of our existing single and multi-element ICP standards, allowing you to calibrate routine determinations without the need for special formulations

DIN 38406 – Scope & Metals Analyzed

DIN 38406 is a suite of German regulatory methods used for the examination of water, wastewater, and sludge. These methods define the determination of various cations and trace metals using standardized analytical procedures. Across its different parts, the method series covers measurements such as calcium and magnesium for water hardness, as well as trace metals including zinc, cadmium, lead, copper, thallium, nickel, and cobalt. **AnalytiChem**'s catalogue ICP standards include all these elements, supporting compliant calibration for laboratories following DIN requirements.

Multi Element ICP Blank sol. (CLP-BLH)	Blank	✦	2500 mL	CL01.13992.2500	AC18.15636.2500
Multi Element ICP Blank sol. (CLP-BLH)	Blank	✦	1000 mL	CL01.13992.1000	AC18.15636.1000
Multi Element ICP Blank sol. (CLP-BLN)	Blank	✦	2500 mL	CL01.13991.2500	AC18.14525.2500
Multi Element ICP Blank sol. (CLP-BLN)	Blank	✦	1000 mL	CL01.13991.1000	AC18.14525.1000
Multi Element ICP Blank sol. (CLP-BLN)	Blank	✦	250 mL	CL01.13991.0250	AC18.14525.0250
Multi Element ICP Blank sol. (CLP-BLN)	Blank	✦	100 mL	CL01.13991.0100	AC18.14525.0100
Multi Element ICP Blank sol. (CLP-BLMA)	Blank	✦	2500 mL	CL01.13994.2500	AC18.02493.2500
Multi Element ICP Blank sol. (CLP-BLMA)	Blank	✦	1000 mL	CL01.13994.1000	AC18.02493.1000
Multi Element ICP Blank sol. (CLP-BLW)	Blank	✦	2500 mL	CL01.13993.2500	AC18.02492.2500
Multi Element ICP Blank sol. (CLP-BLW)	Blank	✦	1000 mL	CL01.13993.1000	AC18.02492.1000

USP <232> – Scope & Metals Analyzed

USP <232> establishes permitted daily exposure limits for elemental impurities in pharmaceutical products. It focuses on toxicologically significant metals that may enter drug formulations through raw materials, catalysts, processing equipment, or packaging. The "Big Four" metals—arsenic, cadmium, lead, and mercury—are always assessed, while additional elements such as cobalt, nickel, selenium, silver, thallium, vanadium, chromium, copper, lithium, molybdenum, tin, barium, and antimony may also be required depending on risk assessment. **AnalytiChem**'s existing catalogue of high-purity ICP standards covers all relevant impurity elements used in routine USP <232> compliance testing.

MISA (Municipal/Industrial Strategy for Abatement) – Scope & Metals Analyzed

MISA programs focus on the monitoring of elemental contaminants in industrial and municipal effluent streams to evaluate discharge loads and regulatory compliance. The framework involves routine measurement of a broad range of metallic pollutants commonly associated with industrial processes and wastewater sources. **AnalytiChem**'s multi-element ICP standards align naturally with these monitoring needs, offering comprehensive coverage of the metals typically prioritized in MISA effluent assessments.

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