

SINGLE-ELEMENT STANDARDS

1,000 µg/mL Standards

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

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ANALYTE	MATRIX	VOLUME	CATALOG #
Aluminum, Al	HNO ₃	30 mL	CGAL1-30ML
		125 mL	CGAL1-125ML
		500 mL	CGAL1-500ML
Aluminum, Al	HCl	30 mL	CGALCL1-30ML
		125 mL	CGALCL1-125ML
		500 mL	CGALCL1-500ML
Antimony, Sb	HNO ₃ / Tartaric Acid	125 mL	CGSB1-125ML
Antimony, Sb	HNO ₃ / HF	125 mL	CGSBF1-125ML
Arsenic, As	HNO ₃	30 mL	CGAS1-30ML
		125 mL	CGAS1-125ML
		500 mL	CGAS1-500ML
Arsenic ⁺³ , As ⁺³	HCl / NaOH / NaHCO ₃	30 mL	CGAS(3)1-30ML
		125 mL	CGAS(3)1-125ML
		500 mL	CGAS(3)1-500ML
Arsenic ⁺⁵ , As ⁺⁵	H ₂ O	30 mL	CGAS(5)1-30ML
		125 mL	CGAS(5)1-125ML
		500 mL	CGAS(5)1-500ML
Barium, Ba	HNO ₃	30 mL	CGBA1-30ML
		125 mL	CGBA1-125ML
		500 mL	CGBA1-500ML
Beryllium, Be	HNO ₃	30 mL	CGBE1-30ML
		125 mL	CGBE1-125ML
		500 mL	CGBE1-500ML
Bismuth, Bi Commonly used as an Internal Standard for ICP-MS.	HNO ₃	30 mL	CGBI1-30ML
		125 mL	CGBI1-125ML
		500 mL	CGBI1-500ML
Boron, B	NH ₄ OH	30 mL	CGB1-30ML
		125 mL	CGB1-125ML
		500 mL	CGB1-500ML
Bromide, Br- Suitable for analyzing Bromide by ICP-OES.	H ₂ O	30 mL	CGICBR1-30ML
		125 mL	CGICBR1-125ML
		500 mL	CGICBR1-500ML
Cadmium, Cd	HNO ₃	30 mL	CGCD1-30ML
		125 mL	CGCD1-125ML
		500 mL	CGCD1-500ML
Calcium, Ca	HNO ₃	30 mL	CGCA1-30ML
		125 mL	CGCA1-125ML
		500 mL	CGCA1-500ML
Carbon, C	HNO ₃	125 mL	CGC1-125ML
		500 mL	CGC1-500ML
Carbon, C Suitable for TOC applications per Standard Methods.	H ₂ O	125 mL	TOCKHP1-125ML
		500 mL	TOCKHP1-500ML
Cerium, Ce	HNO ₃	30 mL	CGCE1-30ML
		125 mL	CGCE1-125ML
		500 mL	CGCE1-500ML

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

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ANALYTE	MATRIX	VOLUME	CATALOG #
Indium, In Commonly used as an Internal Standard for ICP-MS.	HNO ₃	30 mL	CGIN1-30ML
		125 mL	CGIN1-125ML
		500 mL	CGIN1-500ML
Iodide, I- Suitable for analyzing Iodide by ICP-OES.	H ₂ O / TEA	30 mL	CGIC1-30ML
		125 mL	CGIC1-125ML
		500 mL	CGIC1-500ML
Iridium, Ir	HCl	30 mL	CGIR1-30ML
		125 mL	CGIR1-125ML
		500 mL	CGIR1-500ML
Iron, Fe	HNO ₃	30 mL	CGFE1-30ML
		125 mL	CGFE1-125ML
		500 mL	CGFE1-500ML
Lanthanum, La	HNO ₃	30 mL	CGLA1-30ML
		125 mL	CGLA1-125ML
		500 mL	CGLA1-500ML
Lead, Pb	HNO ₃	30 mL	CGPB1-30ML
		125 mL	CGPB1-125ML
		500 mL	CGPB1-500ML
Lithium, Li	HNO ₃	30 mL	CGLI1-30ML
		125 mL	CGLI1-125ML
		500 mL	CGLI1-500ML
⁶Lithium, ⁶Li Commonly used as an Internal Standard for ICP-MS.	HNO ₃	30 mL	CG6LI1-30ML
		125 mL	CG6LI1-125ML
Lutetium, Lu	HNO ₃	30 mL	CGLU1-30ML
		125 mL	CGLU1-125ML
		500 mL	CGLU1-500ML
Magnesium, Mg	HNO ₃	30 mL	CGMG1-30ML
		125 mL	CGMG1-125ML
		500 mL	CGMG1-500ML
Manganese, Mn	HNO ₃	30 mL	CGMN1-30ML
		125 mL	CGMN1-125ML
		500 mL	CGMN1-500ML
Mercury, Hg	HNO ₃	30 mL	CGHG1-30ML
		125 mL	CGHG1-125ML
		500 mL	CGHG1-500ML
Molybdenum, Mo	NH ₄ OH	30 mL	CGMO1-30ML
		125 mL	CGMO1-125ML
		500 mL	CGMO1-500ML
Neodymium, Nd	HNO ₃	30 mL	CGND1-30ML
		125 mL	CGND1-125ML
		500 mL	CGND1-500ML
Nickel, Ni	HNO ₃	30 mL	CGNI1-30ML
		125 mL	CGNI1-125ML
		500 mL	CGNI1-500ML
Niobium, Nb	HNO ₃ / HF	30 mL	CGNB1-30ML
		125 mL	CGNB1-125ML
		500 mL	CGNB1-500ML

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

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Scandium, Sc Commonly used as an Internal Standard for ICP-MS.	HNO ₃	30 mL	CGSC1-30ML
		125 mL	CGSC1-125ML
		500 mL	CGSC1-500ML
Selenium⁺⁴, Se⁺⁴	HNO ₃	30 mL	CGSE(4)1-30ML
		125 mL	CGSE(4)1-125ML
		500 mL	CGSE(4)1-500ML
Selenium⁺⁶, Se⁺⁶	H ₂ O	30 mL	CGSE(6)1-30ML
		125 mL	CGSE(6)1-125ML
Silica, SiO₂	HNO ₃ / HF	30 mL	CGSIO1-30ML
		125 mL	CGSIO1-125ML
		500 mL	CGSIO1-500ML
Silica, SiO₂	NaOH	125 mL	CGSIONA1-125ML
		500 mL	CGSIONA1-500ML
Silicon, Si	HNO ₃ / HF	30 mL	CGSI1-30ML
		125 mL	CGSI1-125ML
		500 mL	CGSI1-500ML
Silicon, Si	NaOH	125 mL	CGSINA1-125ML
		500 mL	CGSINA1-500ML
Silver, Ag	HNO ₃	30 mL	CGAG1-30ML
		125 mL	CGAG1-125ML
		500 mL	CGAG1-500ML
Sodium, Na	HNO ₃	30 mL	CGNA1-30ML
		125 mL	CGNA1-125ML
		500 mL	CGNA1-500ML
Strontium, Sr	HNO ₃	30 mL	CGSR1-30ML
		125 mL	CGSR1-125ML
		500 mL	CGSR1-500ML
Sulfur, S Compatible if mixed with Ba and Pb.	H ₂ O	125 mL	CGMSA1-125ML
		500 mL	CGMSA1-500ML
Sulfur, S	H ₂ O	30 mL	CGS1-30ML
		125 mL	CGS1-125ML
		500 mL	CGS1-500ML
Tantalum, Ta	HNO ₃ / HF	30 mL	CGTA1-30ML
		125 mL	CGTA1-125ML
		500 mL	CGTA1-500ML
Tellurium, Te	HCl	30 mL	CGTE1-30ML
		125 mL	CGTE1-125ML
		500 mL	CGTE1-500ML
Tellurium, Te	HNO ₃	30 mL	CGTEN1-30ML
		125 mL	CGTEN1-125ML
		500 mL	CGTEN1-500ML
Terbium, Tb Commonly used as an Internal Standard for ICP-MS.	HNO ₃	30 mL	CGTB1-30ML
		125 mL	CGTB1-125ML
		500 mL	CGTB1-500ML

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

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