



## 30 mL Single-Element Standards for ICP and ICP-MS

- Reduce waste and mitigate worries about expiration dates
- Made with high purity ASTM Type I Water
- Made with the finest, purest materials available



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Spex CertiPrep is an  
Antylia Scientific company.  
Find out more at [antylia.com](https://www.antylia.com).



# 30 mL Single-Element Standards for ICP and ICP-MS

- Made with acid and ASTM Type I Water
- Inorganic compounds and metals at 99.99% to 99.9999% purity (where commercially available)
- Directly traceable to NIST (where applicable)
- Certified by DQS to ISO 9001:2015
- Certified by A2LA to ISO/IEC 17025:2017 and ISO 17034:2016

Spex CertiPrep has made a selection of our ICP and ICP-MS single-element standards available in a 30 mL volume. This product line delivers the same quality you have come to expect, but in a smaller volume reducing waste and mitigating worries about expiration dates.

As with all of our ICP and ICP-MS standards, the 30 mL standards include a comprehensive Certificate of Analysis. Each certificate is compliant with ISO 9001:2015, ISO/IEC 17025:2017 and ISO 17034:2016 guides and standards. The NIST traceable certified value of the main analyte is clearly stated, along with actual measured values, down to parts per trillion (ppt), of up to 68 trace impurities.

In order to ensure the best quality products possible, Spex CertiPrep standards are made with the finest, purest materials available. Our ICP and ICP-MS single-element standards are made using ultra high purity acids, 99.99+% pure starting materials and ASTM Type I Water.



Inorganic Certified Reference Materials



Analytical Standards for ICP and ICP-MS Analysis



Supplied with a Certificate of Analysis



ISO Accredited Standards

# 30 mL Single-Element Standards for ICP and ICP-MS

ICP-MS Standards				
Element	Concentration	Volume	Matrix	Part #
Aluminum	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLAL2-2M
Antimony	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.6% Tartaric Acid/tr. HNO <sub>3</sub>	CLSB7-2M
Arsenic	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLAS2-2M
Barium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLBA2-2M
Beryllium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLBE2-2M
Bismuth	10 µg/mL	30 mL	2% HNO <sub>3</sub>	CLBI2-1AM
Cadmium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLCD2-2M
Calcium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLCA2-2M
Chromium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLCR2-2M
Cobalt	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLCO2-2M
Copper	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLCU2-2M
Germanium	10 µg/mL	30 mL	H <sub>2</sub> O/tr. F-	CLGE9-1AM
Gold	100 µg/mL	30 mL	2% HCl	CLAU1-1M
Indium	10 µg/mL	30 mL	2% HNO <sub>3</sub>	CLIN2-1AM
Iron	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLFE2-2M
Lead	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLPB2-2M
Magnesium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLMG2-2M
Manganese	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLMN2-2M
Mercury	10 µg/mL	30 mL	5% HNO <sub>3</sub>	CLHG2-1AM
Mercury	1,000 µg/mL	30 mL	10% HNO <sub>3</sub>	CLHG4-2M
Molybdenum	1,000 µg/mL	30 mL	H <sub>2</sub> O	CLMO9-2M
Nickel	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLNI2-2M
Potassium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLK2-2M
Rhodium	10 µg/mL	30 mL	2% HCl	CLRH1-1AM
Scandium	10 µg/mL	30 mL	2% HNO <sub>3</sub>	CLSC2-1AM
Selenium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLSE2-2M
Silver	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLAG2-2M
Sodium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLNA2-2M
Terbium	10 µg/mL	30 mL	2% HNO <sub>3</sub>	CLTB2-1AM
Thallium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLTL2-2M
Thorium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLTH2-2M

# 30 mL Single-Element Standards for ICP and ICP-MS

## ICP-MS Standards (cont'd)

Element	Concentration	Volume	Matrix	Part #
Tin	1,000 µg/mL	30 mL	1% HNO <sub>3</sub> /1% HF	CLSN2-2M
Titanium	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.24% F <sup>-</sup>	CLTI9-2M
Uranium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLU2-2M
Vanadium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLV2-2M
Yttrium	10 µg/mL	30 mL	2% HNO <sub>3</sub>	CLY2-1AM
Zinc	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	CLZN2-2M

## ICP Standards

Element	Concentration	Volume	Matrix	Part #
Aluminum	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLAL2-2M
Antimony	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.6% Tartaric Acid/tr. HNO <sub>3</sub>	PLSB7-2M
Arsenic	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLAS2-2M
Barium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLBA2-2M
Beryllium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLBE2-2M
Bismuth	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLBI4-2M
Boron	1,000 µg/mL	30 mL	H <sub>2</sub> O	PLB9-2M
Cadmium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLCD2-2M
Calcium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLCA2-2M
Carbon	1,000 µg/mL	30 mL	H <sub>2</sub> O	PLC9-2M
Cerium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLCE2-2M
Cesium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLCS2-2M
Chromium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLCR2-2M
Cobalt	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLCO2-2M
Copper	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLCU2-2M
Dysprosium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLDY2-2M
Erbium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLER2-2M
Europium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLEU2-2M
Gadolinium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLGD2-2M
Gallium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLGA2-2M

# 30 mL Single-Element Standards for ICP and ICP-MS

## ICP Standards (cont'd)

Element	Concentration	Volume	Matrix	Part #
Germanium	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.16% F <sup>-</sup>	PLGE9-2M
Gold	1,000 µg/mL	30 mL	10% HCl	PLAU3-2M
Hafnium	1,000 µg/mL	30 mL	2% HCl	PLHF1-2M
Holmium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLHO2-2M
Indium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLIN2-2M
Iridium	1,000 µg/mL	30 mL	10% HCl	PLIR3-2M
Iron	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLFE2-2M
Lanthanum	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLLA2-2M
Lead	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLPB2-2M
Lithium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLLI2-2M
Lutetium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLLU2-2M
Magnesium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLMG2-2M
Manganese	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLMN2-2M
Mercury	1,000 µg/mL	30 mL	10% HNO <sub>3</sub>	PLHG4-2M
Molybdenum	1,000 µg/mL	30 mL	H <sub>2</sub> O	PLMO9-2M
Neodymium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLND2-2M
Nickel	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLNI2-2M
Niobium	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.4% F <sup>-</sup>	PLNB9-2M
Palladium	1,000 µg/mL	30 mL	10% HCl	PLPD3-2M
Phosphorus	1,000 µg/mL	30 mL	H <sub>2</sub> O	PLP9-2M
Platinum	1,000 µg/mL	30 mL	10% HCl	PLPT3-2M
Potassium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLK2-2M
Praseodymium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLPR2-2M
Rhenium	1,000 µg/mL	30 mL	H <sub>2</sub> O	PLRE9-2M
Rhodium	1,000 µg/mL	30 mL	10% HCl	PLRH3-2M
Rubidium	1,000 µg/mL	30 mL	2% HCl	PLRB2-2M
Ruthenium	1,000 µg/mL	30 mL	10% HCl	PLRU3-2M
Samarium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLSM2-2M
Scandium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLSC2-2M
Selenium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLSE2-2M
Silicon	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.4% F <sup>-</sup>	PLSI9-2M

# 30 mL Single-Element Standards for ICP and ICP-MS

## ICP Standards (cont'd)

Element	Concentration	Volume	Matrix	Part #
Silver	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLAG2-2M
Sodium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLNA2-2M
Strontium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLSR2-2M
Sulfur	1,000 µg/mL	30 mL	H <sub>2</sub> O	PLS9-2M
Tantalum	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.8% HF	PLTA9-2M
Tellurium	1,000 µg/mL	30 mL	10% HNO <sub>3</sub>	PLTE4-2M
Terbium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLTB2-2M
Thallium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLTL2-2M
Thorium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLTH2-2M
Thulium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLTM2-2M
Tin	1,000 µg/mL	30 mL	20% HCl	PLSN5-2M
Titanium	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.24% F <sup>-</sup>	PLTI9-2M
Tungsten	1,000 µg/mL	30 mL	H <sub>2</sub> O	PLW9-2M
Uranium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLU2-2M
Vanadium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLV2-2M
Ytterbium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLYB2-2M
Yttrium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLY2-2M
Zinc	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLZN2-2M
Zirconium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	PLZR2-2M

Can't find the standards you are looking for?

Spex CertiPrep can make custom standards to meet your exact needs. Contact us at [spexsales@antylia.com](mailto:spexsales@antylia.com) for more information.

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