

## 30 mL Single-Element Standards

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

*Decrease Your Waste and Save Your Space!*

SPEX CertiPrep has recently made a selection of our ICP-MS and ICP single-element standards available in a 30 mL volume. This product delivers the same great SPEX CertiPrep 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-MS and ICP 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 product possible, SPEX CertiPrep standards are made with the finest, purest materials available. Our ICP-MS single-element standards are made using ultra high purity acids, 99.9999+% pure starting materials and ASTM Type I Water.

For additional product information, please visit [www.spexcertiprep.com/products/inorganic](http://www.spexcertiprep.com/products/inorganic).

#### ICP-MS STANDARDS

Element	Concentration	Volume	Matrix	Part #
Aluminum	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693511
Antimony	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.6% Tartaric Acid/tr. HNO <sub>3</sub>	0770693482
Arsenic	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693433
Barium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693399
Beryllium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693325
Bismuth	10 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693286
Cadmium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693224
Calcium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693215
Chromium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693087
Cobalt	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693055
Copper	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693043
Germanium	10 µg/mL	30 mL	H <sub>2</sub> O/tr. F <sup>-</sup>	0770692635
Gold	100 µg/mL	30 mL	2% HCl	0770692617
Indium	10 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692478

#### CERTIFIED REFERENCE MATERIALS

Since 1954, SPEX CertiPrep is the industry leader in the CRM marketplace meeting the needs of laboratories worldwide with innovation and research. Accredited by A2LA to ISO/IEC 17025:2017 & ISO 17034:2016. Certified by DQS to ISO 9001:2015.

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# 30 mL ICP-MS and ICP (cont'd)

ICP-MS STANDARDS				
Element	Concentration	Volume	Matrix	Part #
Iron	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692415
Lead	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692361
Magnesium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692282
Manganese	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692262
Mercury	10 µg/mL	30 mL	5% HNO <sub>3</sub>	0770692240
Mercury	1,000 µg/mL	30 mL	10% HNO <sub>3</sub>	0770692245
Molybdenum	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770692102
Nickel	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692007
Potassium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691719
Rhodium	10 µg/mL	30 mL	2% HCl	0770691587
Scandium	10 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691566
Selenium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691553
Silver	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691528
Sodium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691513
Terbium	10 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691389
Thallium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691346
Thorium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691327
Tin	1,000 µg/mL	30 mL	1% HNO <sub>3</sub> /1% HF	0770691317
Titanium	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.24% F <sup>-</sup>	0770691308
Uranium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691203
Vanadium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691172
Yttrium	10 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691118
Zinc	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691110

ICP STANDARDS				
Element	Concentration	Volume	Matrix	Part #
Aluminum	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693510
Antimony	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.6% Tartaric Acid/tr. HNO <sub>3</sub>	0770693480
Arsenic	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693431
Barium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693396
Beryllium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693323
Bismuth	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693289
Boron	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770693274
Cadmium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693223
Calcium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693214
Carbon	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770693173
Cerium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693163
Cesium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693161
Chromium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693086
Cobalt	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693053
Copper	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693042
Dysprosium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692845
Erbium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692812
Europium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692760
Gadolinium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692662

# 30 mL ICP-MS and ICP (cont'd)

ICP STANDARDS				
Element	Concentration	Volume	Matrix	Part #
Gallium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692656
Germanium	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.16% F <sup>-</sup>	0770692638
Gold	1,000 µg/mL	30 mL	10% HCl	0770692620
Hafnium	1,000 µg/mL	30 mL	2% HCl	0770692615
Holmium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692569
Indium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692481
Iridium	1,000 µg/mL	30 mL	10% HCl	0770692421
Iron	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692414
Lanthanum	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692369
Lead	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692360
Lithium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692306
Lutetium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692288
Magnesium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692280
Manganese	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692260
Mercury	1,000 µg/mL	30 mL	10% HNO <sub>3</sub>	0770692243
Molybdenum	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770692099
Neodymium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692026
Nickel	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770692006
Niobium	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.4% F <sup>-</sup>	0770692004
Palladium	1,000 µg/mL	30 mL	10% HCl	0770691864
Phosphorus	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770691764
Platinum	1,000 µg/mL	30 mL	10% HCl	0770691732
Potassium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691716
Praseodymium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691711
Rhenium	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770691593
Rhodium	1,000 µg/mL	30 mL	10% HCl	0770691590
Rubidium	1,000 µg/mL	30 mL	2% HCl	0770691584
Ruthenium	1,000 µg/mL	30 mL	10% HCl	0770691581
Samarium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691575
Scandium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691569
Selenium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691551
Silicon	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.4% F <sup>-</sup>	0770691533
Silver	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691527
Sodium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691511
Strontium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691490
Sulfur	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770691431
Tantalum	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.8% HF	0770691420
Tellurium	1,000 µg/mL	30 mL	10% HNO <sub>3</sub>	0770691398
Terbium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691392
Thallium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691344
Thorium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691325
Thulium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691322
Tin	1,000 µg/mL	30 mL	20% HCl	0770691315
Titanium	1,000 µg/mL	30 mL	H <sub>2</sub> O/0.24% F <sup>-</sup>	0770691307
Tungsten	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770691212
Uranium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691201

## 30 mL ICP-MS and ICP (cont'd)

ICP STANDARDS				
Element	Concentration	Volume	Matrix	Part #
Vanadium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691171
Ytterbium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691126
Yttrium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691121
Zinc	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691109
Zirconium	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770694114

SPECIATION STANDARDS				
Element	Concentration	Volume	Matrix	Part #
Arsenic <sup>+3</sup>	1,000 µg/mL	30 mL	2% HCl	0770693439
Arsenic <sup>+5</sup>	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770693437
Chromium <sup>+3</sup>	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770693093
Chromium <sup>+6</sup>	1,000 µg/mL	30 mL	H <sub>2</sub> O	0770693091
Selenium <sup>+4</sup>	1,000 µg/mL	30 mL	2% HNO <sub>3</sub>	0770691558

**CAN'T FIND THE STANDARDS YOU ARE LOOKING FOR?**

SPEX CertiPrep can make custom standards to meet your exact needs. Contact us for more information.