SPEX Europe®

Your Science Is Our Passion®

30 mL Single-Element Standards

Single Element Standards for ICP-MS and ICP

Decrease Your Waste and Save Your Space!

SPEX Europe 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 Europe 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 17025:2005 and ISO Guide 34:2009 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 Europe 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.eu.fishersci.com.

ICP-MS STANDARDS

Element	Concentration	Volume	Matrix	Part #
Aluminum	1,000 µg/mL	30 mL	2% HNO_3	CLAL2-2M
Antimony	1,000 µg/mL	30 mL	H_2O/0.6% Tartaric Acid/tr. HNO_3	CLSB7-2M
Arsenic	1,000 µg/mL	30 mL	2% HNO_3	CLAS2-2M
Barium	1,000 µg/mL	30 mL	2% HNO_3	CLBA2-2M
Beryllium	1,000 µg/mL	30 mL	2% HNO_3	CLBE2-2M
Bismuth	10 µg/mL	30 mL	2% HNO_3	CLBI2-1AM
Cadmium	1,000 µg/mL	30 mL	2% HNO_3	CLCD2-2M
Calcium	1,000 µg/mL	30 mL	2% HNO_3	CLCA2-2M
Chromium	1,000 µg/mL	30 mL	2% HNO_3	CLCR2-2M
Cobalt	1,000 µg/mL	30 mL	2% HNO_3	CLCO2-2M
Copper	1,000 µg/mL	30 mL	2% HNO_3	CLCU2-2M
Germanium	10 µg/mL	30 mL	H_2O/tr. F^-	CLGE9-1AM
Gold	100 µg/mL	30 mL	2% HCl	CLAU1-1M

CERTIFIED REFERENCE MATERIALS

Since 1954, SPEX Europe 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 UL-DQS, ISO 9001:2015.

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

ICP-MS STANDARDS

Element	Concentration	Volume	Matrix	Part #
Indium	10 µg/mL	30 mL	2% HNO_3	CLIN2-1AM
Iron	1,000 µg/mL	30 mL	2% HNO_3	CLFE2-2M
Lead	1,000 µg/mL	30 mL	2% HNO_3	CLPB2-2M
Magnesium	1,000 µg/mL	30 mL	2% HNO_3	CLMG2-2M
Manganese	1,000 µg/mL	30 mL	2% HNO_3	CLMN2-2M
Mercury	10 µg/mL	30 mL	5% HNO_3	CLHG2-1AM
Mercury	1,000 µg/mL	30 mL	10% HNO_3	CLHG4-2M
Molybdenum	1,000 µg/mL	30 mL	H_2O	CLMO9-2M
Nickel	1,000 µg/mL	30 mL	2% HNO_3	CLNI2-2M
Potassium	1,000 µg/mL	30 mL	2% HNO_3	CLK2-2M
Rhodium	10 µg/mL	30 mL	2% HCl	CLRH1-1AM
Scandium	10 µg/mL	30 mL	2% HNO_3	CLSC2-1AM
Selenium	1,000 µg/mL	30 mL	2% HNO_3	CLSE2-2M
Silver	1,000 µg/mL	30 mL	2% HNO_3	CLAG2-2M
Sodium	1,000 µg/mL	30 mL	2% HNO_3	CLNA2-2M
Terbium	10 µg/mL	30 mL	2% HNO_3	CLTB2-1AM
Thallium	1,000 µg/mL	30 mL	2% HNO_3	CLTL2-2M
Thorium	1,000 µg/mL	30 mL	2% HNO_3	CLTH2-2M
Tin	1,000 µg/mL	30 mL	1% HNO_3/1% HF	CLSN2-2M
Titanium	1,000 µg/mL	30 mL	H_2O/0.24% F^-	CLTI9-2M
Uranium	1,000 µg/mL	30 mL	2% HNO_3	CLU2-2M
Vanadium	1,000 µg/mL	30 mL	2% HNO_3	CLV2-2M
Yttrium	10 µg/mL	30 mL	2% HNO_3	CLY2-1AM
Zinc	1,000 µg/mL	30 mL	2% HNO_3	CLZN2-2M

ICP STANDARDS

Element	Concentration	Volume	Matrix	Part #
Aluminum	1,000 µg/mL	30 mL	2% HNO_3	PLAL2-2M
Antimony	1,000 µg/mL	30 mL	H_2O/0.6% Tartaric Acid/tr. HNO_3	PLSB7-2M
Arsenic	1,000 µg/mL	30 mL	2% HNO_3	PLAS2-2M
Barium	1,000 µg/mL	30 mL	2% HNO_3	PLBA2-2M
Beryllium	1,000 µg/mL	30 mL	2% HNO_3	PLBE2-2M
Bismuth	1,000 µg/mL	30 mL	2% HNO_3	PLBI4-2M
Boron	1,000 µg/mL	30 mL	H_2O	PLB9-2M
Cadmium	1,000 µg/mL	30 mL	2% HNO_3	PLCD2-2M
Calcium	1,000 µg/mL	30 mL	2% HNO_3	PLCA2-2M
Carbon	1,000 µg/mL	30 mL	H_2O	PLC9-2M
Cerium	1,000 µg/mL	30 mL	2% HNO_3	PLCE2-2M
Cesium	1,000 µg/mL	30 mL	2% HNO_3	PLCS2-2M
Chromium	1,000 µg/mL	30 mL	2% HNO_3	PLCR2-2M
Cobalt	1,000 µg/mL	30 mL	2% HNO_3	PLCO2-2M
Copper	1,000 µg/mL	30 mL	2% HNO_3	PLCU2-2M
Dysprosium	1,000 µg/mL	30 mL	2% HNO_3	PLDY2-2M
Erbium	1,000 µg/mL	30 mL	2% HNO_3	PLER2-2M
Europium	1,000 µg/mL	30 mL	2% HNO_3	PLEU2-2M
Gadolinium	1,000 µg/mL	30 mL	2% HNO_3	PLGD2-2M

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

ICP STANDARDS

Element	Concentration	Volume	Matrix	Part #
Gallium	1,000 µg/mL	30 mL	2% HNO_3	PLGA2-2M
Germanium	1,000 µg/mL	30 mL	H_2O/0.16% F^-	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_3	PLHO2-2M
Indium	1,000 µg/mL	30 mL	2% HNO_3	PLIN2-2M
Iridium	1,000 µg/mL	30 mL	10% HCl	PLIR3-2M
Iron	1,000 µg/mL	30 mL	2% HNO_3	PLFE2-2M
Lanthanum	1,000 µg/mL	30 mL	2% HNO_3	PLLA2-2M
Lead	1,000 µg/mL	30 mL	2% HNO_3	PLPB2-2M
Lithium	1,000 µg/mL	30 mL	2% HNO_3	PLLI2-2M
Lutetium	1,000 µg/mL	30 mL	2% HNO_3	PLLU2-2M
Magnesium	1,000 µg/mL	30 mL	2% HNO_3	PLMG2-2M
Manganese	1,000 µg/mL	30 mL	2% HNO_3	PLMN2-2M
Mercury	1,000 µg/mL	30 mL	10% HNO_3	PLHG4-2M
Molybdenum	1,000 µg/mL	30 mL	H_2O	PLMO9-2M
Neodymium	1,000 µg/mL	30 mL	2% HNO_3	PLND2-2M
Nickel	1,000 µg/mL	30 mL	2% HNO_3	PLNI2-2M
Niobium	1,000 µg/mL	30 mL	H_2O/0.4% F^-	PLNB9-2M
Palladium	1,000 µg/mL	30 mL	10% HCl	PLPD3-2M
Phosphorus	1,000 µg/mL	30 mL	H_2O	PLP9-2M
Platinum	1,000 µg/mL	30 mL	10% HCl	PLPT3-2M
Potassium	1,000 µg/mL	30 mL	2% HNO_3	PLK2-2M
Praseodymium	1,000 µg/mL	30 mL	2% HNO_3	PLPR2-2M
Rhenium	1,000 µg/mL	30 mL	H_2O	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_3	PLSM2-2M
Scandium	1,000 µg/mL	30 mL	2% HNO_3	PLSC2-2M
Selenium	1,000 µg/mL	30 mL	2% HNO_3	PLSE2-2M
Silicon	1,000 µg/mL	30 mL	H_2O/0.4% F^-	PLSI9-2M
Silver	1,000 µg/mL	30 mL	2% HNO_3	PLAG2-2M
Sodium	1,000 µg/mL	30 mL	2% HNO_3	PLNA2-2M
Strontium	1,000 µg/mL	30 mL	2% HNO_3	PLSR2-2M
Sulfur	1,000 µg/mL	30 mL	H_2O	PLS9-2M
Tantalum	1,000 µg/mL	30 mL	H_2O/0.8% HF	PLTA9-2M
Tellurium	1,000 µg/mL	30 mL	10% HNO_3	PLTE4-2M
Terbium	1,000 µg/mL	30 mL	2% HNO_3	PLTB2-2M
Thallium	1,000 µg/mL	30 mL	2% HNO_3	PLTL2-2M
Thorium	1,000 µg/mL	30 mL	2% HNO_3	PLTH2-2M
Thulium	1,000 µg/mL	30 mL	2% HNO_3	PLTM2-2M
Tin	1,000 µg/mL	30 mL	20% HCl	PLSN5-2M
Titanium	1,000 µg/mL	30 mL	H_2O/0.24% F^-	PLTI9-2M
Tungsten	1,000 µg/mL	30 mL	H_2O	PLW9-2M
Uranium	1,000 µg/mL	30 mL	2% HNO_3	PLU2-2M

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

ICP STANDARDS

Element	Concentration	Volume	Matrix	Part #
Vanadium	1,000 µg/mL	30 mL	2% HNO_3	PLV2-2M
Ytterbium	1,000 µg/mL	30 mL	2% HNO_3	PLYB2-2M
Yttrium	1,000 µg/mL	30 mL	2% HNO_3	PLY2-2M
Zinc	1,000 µg/mL	30 mL	2% HNO_3	PLZN2-2M
Zirconium	1,000 µg/mL	30 mL	2% HNO_3	PLZR2-2M

SPECIATION STANDARDS

Element	Concentration	Volume	Matrix	Part #
Arsenic $^{+3}$	1,000 µg/mL	30 mL	2% HCl	SPEC-AS3M
Arsenic $^{+5}$	1,000 µg/mL	30 mL	H_2O	SPEC-AS5M
Chromium $^{+3}$	1,000 µg/mL	30 mL	2% HNO_3	SPEC-CR3M
Chromium $^{+6}$	1,000 µg/mL	30 mL	H_2O	SPEC-CR6M
Selenium $^{+4}$	1,000 µg/mL	30 mL	2% HNO_3	SPEC-SE4M

CAN'T FIND THE STANDARDS YOU ARE LOOKING FOR?

SPEX Europe can make custom standards to meet your exact needs. Contact your Fisher Scientific Sales Representative for a quote.

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