

CERTIFIED
REFERENCE
MATERIALS

1 PPM ICP-MS Single Element Standards

Claritas PPT® Grade

Features and Benefits Include:

- **High Performance:** 1 step dilution to PPB levels, reducing dilution errors
- **High Purity:** Made using high purity acids, high grade starting materials, and high purity water to minimize trace contaminants
- **High Quality:** Concentration of target element guaranteed to $\pm 0.5\%$ accuracy
- **Comprehensive COA:** Certificate of Analysis reports up to 68 trace element impurities



INORGANIC

SPEX CertiPrep is the
industry leader for
over 60 years in
the CRM marketplace
meeting the needs of
laboratories worldwide
with innovation
and research.

ICP-MS Standards

Volume: 125 mL	Concentration: 1 µg/mL	
Element	Matrix	Catalog #
Aluminum	2% HCl	CLAL1-1BY
Aluminum	2% HNO ₃	CLAL2-1BY
Antimony	5% HCl	CLSB1-1BY
Antimony	H ₂ O/Tr. HNO ₃ /Tr. Tart	CLSB7-1BY
Arsenic	2% HCl	CLAS1-1BY
Arsenic	2% HNO ₃	CLAS2-1BY
Barium	2% HCl	CLBA1-1BY
Barium	2% HNO ₃	CLBA2-1BY
Beryllium	2% HNO ₃	CLBE2-1BY
Bismuth	2% HNO ₃	CLBI2-1BY
Boron	H ₂ O	CLB9-1BY
Cadmium	2% HCl	CLCD1-1BY
Cadmium	2% HNO ₃	CLCD2-1BY
Calcium	2% HCl	CLCA1-1BY
Calcium	2% HNO ₃	CLCA2-1BY
Carbon	H ₂ O	CLC9-1BY
Cerium	2% HNO ₃	CLCE2-1BY
Cesium	2% HNO ₃	CLCS2-1BY
Chromium	2% HCl	CLCR1-1BY

ICP-MS Standards

Volume: 125 mL	Concentration: 1 µg/mL	
Element	Matrix	Catalog #
Chromium	2% HNO ₃	CLCR2-1BY
Chromium	H ₂ O	CLCR9-1BY
Cobalt	2% HCl	CLCO1-1BY
Cobalt	2% HNO ₃	CLCO2-1BY
Copper	2% HCl	CLCU1-1BY
Copper	2% HNO ₃	CLCU2-1BY
Dysprosium	2% HNO ₃	CLDY2-1BY
Erbium	2% HNO ₃	CLER2-1BY
Europium	2% HNO ₃	CLEU2-1BY
Gadolinium	2% HNO ₃	CLGD2-1BY
Gallium	2% HNO ₃	CLGA2-1BY
Germanium	H ₂ O	CLGE9-1BY
Gold	2% HCl	CLAU1-1BY
Hafnium	2% HCl	CLHF1-1BY
Holmium	2% HNO ₃	CLHO2-1BY
Indium	2% HNO ₃	CLIN2-1BY
Iridium	2% HCl	CLIR1-1BY
Iron	2% HCl	CLFE1-1BY
Iron	2% HNO ₃	CLFE2-1BY



Accredited by A2LA for ISO 17025 and Guide 34,
and Certified by UL-DQS for ISO 9001.



SPEX CertiPrep

Inorganic & Organic Certified Reference Materials

1 PPM ICP/MS Standards

Claritas PPT® Grade

ICP-MS Standards		
Volume: 125 mL	Concentration: 1 µg/mL	
Element	Matrix	Catalog #
Lanthanum	2% HNO3	CLLA2-1BY
Lead	2% HNO3	CLPB2-1BY
Lithium	2% HCl	CLLI1-1BY
Lithium	2% HNO3	CLLI2-1BY
Lutetium	2% HNO3	CLLU2-1BY
Magnesium	2% HCl	CLMG1-1BY
Magnesium	2% HNO3	CLMG2-1BY
Manganese	2% HNO3	CLMN2-1BY
Mercury	0.7% HNO3 / 0.4% HCl	CLHG6-1BY
Molybdenum	H2O	CLMO9-1BY
Neodymium	2% HNO3	CLND2-1BY
Nickel	2% HNO3	CLNI2-1BY
Niobium	H2O / Tr. HF	CLNB9-1BY
Palladium	2% HCl	CLPD1-1BY
Phosphorus	H2O	CLP9-1BY
Platinum	2% HCl	CLPT1-1BY
Potassium	2% HCl	CLK1-1BY
Potassium	2% HNO3	CLK2-1BY
Praseodymium	2% HNO3	CLPR2-1BY
Rhenium	H2O	CLRE9-1BY
Rhodium	2% HCl	CLRH1-1BY
Rubidium	2% HNO3	CLRB2-1BY
Ruthenium	2% HCl	CLRU1-1BY
Samarium	2% HNO3	CLSM2-1BY
Scandium	2% HNO3	CLSC2-1BY
Selenium	2% HNO3	CLSE2-1BY
Silicon	H2O/Tr. F-	CLSI9-1BY

ICP-MS Standards		
Volume: 125 mL	Concentration: 1 µg/mL	
Element	Matrix	Catalog #
Silver	2% HNO3	CLAG2-1BY
Sodium	2% HCl	CLNA1-1BY
Sodium	2% HNO3	CLNA2-1BY
Strontium	2% HCl	CLSR1-1BY
Strontium	2% HNO3	CLSR2-1BY
Sulfur	H2O	CLS9-1BY
Tantalum	H2O / Tr. HF	CLTA9-1BY
Tellurium	5% HCl	CLTE1-1BY
Tellurium	5% HNO3	CLTE2-1BY
Terbium	2% HNO3	CLTB2-1BY
Thallium	2% HNO3	CLTL2-1BY
Thorium	2% HNO3	CLTH2-1BY
Thulium	2% HNO3	CLTM2-1BY
Tin	5% HCl	CLSN1-1BY
Tin	2% HNO3 / tr HF	CLSN2-1BY
Titanium	H2O/Tr. F-	CLTI9-1BY
Tungsten	2% HNO3 / tr HF	CLW2-1BY
Tungsten	H2O	CLW9-1BY
Uranium	2% HNO3	CLU2-1BY
Vanadium	2% HCl	CLV1-1BY
Vanadium	2% HNO3	CLV2-1BY
Ytterbium	2% HNO3	CLYB2-1BY
Yttrium	2% HNO3	CLY2-1BY
Zinc	2% HCl	CLZN1-1BY
Zinc	2% HNO3	CLZN2-1BY
Zirconium	2% HCl	CLZR1-1BY
Zirconium	2% HNO3	CLZR2-1BY



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