

Precision Standards for Reliable Elemental Analysis

We offer a comprehensive portfolio of high-quality ICP Certified Reference Materials (CRMs), ideal for Inductively Coupled Plasma (ICP) applications, including Optical Emission Spectroscopy (ICP-OES), Atomic Emission Spectroscopy (AES), and Mass Spectrometry (ICP-MS), to ensure accurate elemental analysis across a wide range of industries.

Product Highlights:

- Single-element and Multi-element standards
- Concentrations of 1,000 µg/mL and 10,000 µg/mL
- Volumes ranging from 30 mL to 500 mL for lab-scale or high-volume applications

Applications:

- Environmental testing
- Pharmaceutical quality control
- Metallurgical analysis
- Academic and industrial R&D



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ICP Single Element Oil Standards

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Blank	SXBASE20	BASE20	Base Oil 20 Blank (1 US Gal)	500 mL	EA	Base Oil 20
	SXBASE20-G	BASE20-G	Base Oil 75 Blank	3,785 mL	EA	Base Oil 20
	SXBASE75	BASE75	Base Oil 75 Blank (1 US Gal)	500 mL	EA	Base Oil 75
	SXBASE75-G	BASE75-G	B100 Biodiesel Certify MatrX Blank	3,785 mL	EA	Base Oil 75
	SXBF-BLKX	BF-BLKX	B100 Biodiesel Certify MatrX Blank	500 mL	EA	B100 Biofuel
	SXDSS8-Y	DSS8-Y	Kerosene Blank	100 mL	EA	Base Oil 20
	SXKER-BLK	KER-BLK	Kerosene Blank (1 US Gal)	500 mL	EA	Kerosene
Ag	SXKER-BLK-G	KER-BLK-G	Silver (1,000 ppm)	3,785 mL	EA	Kerosene
Al	SXORG-AG8-2Z	ORG-AG8-2Z	Aluminum (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-AL8-2Z	ORG-AL8-2Z	Aluminum (5,000 ppm)	50 g	EA	Base Oil 20
	SXORG-AL8-4Z	ORG-AL8-4Z	Aluminum (5,000 ppm)	50 g	EA	Base Oil 75
As	SXORG-AS8-2Z	ORG-AS8-2Z	Arsenic 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
Ba	SXORG-BA8-2Z	ORG-BA8-2Z	Barium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-BA8-4Z	ORG-BA8-4Z	Barium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Be	SXORG-BE8-2Z	ORG-BE8-2Z	Beryllium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
Bi	SXORG-BI8-2Z	ORG-BI8-2Z	Bismuth 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
B	SXORG-B8-2Z	ORG-B8-2Z	Boron 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-B8-4Z	ORG-B8-4Z	Boron 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Ca	SXORG-CA8-2Z	ORG-CA8-2Z	Calcium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-CA8-4Z	ORG-CA8-4Z	Calcium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Cd	SXORG-CD8-2Z	ORG-CD8-2Z	Cadmium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-CD8-4Z	ORG-CD8-4Z	Cadmium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Co	SXORG-CO8-2Z	ORG-CO8-2Z	Cobalt 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-CO8-4Z	ORG-CO8-4Z	Cobalt 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Cr	SXORG-CR8-2Z	ORG-CR8-2Z	Chromium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-CR8-4Z	ORG-CR8-4Z	Chromium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Cu	SXORG-CU8-2Z	ORG-CU8-2Z	Copper 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-CU8-4Z	ORG-CU8-4Z	Copper 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Fe	SXORG-CU8-2Z	ORG-CU8-2Z	Copper 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-CU8-4Z	ORG-CU8-4Z	Copper 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Hg	SXORG-HG8-2Z	ORG-HG8-2Z	Mercury 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
K	SXORG-K8-2Z	ORG-K8-2Z	Potassium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-K8-4Z	ORG-K8-4Z	Potassium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Li	SXORG-LI8-2Z	ORG-LI8-2Z	Lithium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-LI8-4Z	ORG-LI8-4Z	Lithium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Mg	SXORG-MG8-2Z	ORG-MG8-2Z	Magnesium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-MG8-4Z	ORG-MG8-4Z	Magnesium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Mn	SXORG-MN8-2Z	ORG-MN8-2Z	Manganese 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-MN8-4Z	ORG-MN8-4Z	Manganese 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Mo	SXORG-MO8-2Z	ORG-MO8-2Z	Molybdenum 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-MO8-4Z	ORG-MO8-4Z	Molybdenum 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75

ICP Single Element Oil Standards (continued)

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Na	SXORG-NA8-2Z	ORG-NA8-2Z	Sodium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-NA8-4Z	ORG-NA8-4Z	Sodium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Ni	SXORG-NI8-2Z	ORG-NI8-2Z	Nickel 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-NI8-4Z	ORG-NI8-4Z	Nickel 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
P	SXORG-P8-2Z	ORG-P8-2Z	Phosphorus 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-P8-4Z	ORG-P8-4Z	Phosphorus 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Pb	SXORG-PB8-2Z	ORG-PB8-2Z	Lead at 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-PB8-4Z	ORG-PB8-4Z	Lead at 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Sb	SXORG-SB8-2Z	ORG-SB8-2Z	Antimony 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
Sc	SXORG-SC8-2Z	ORG-SC8-2Z	Scandium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
Se	SXORG-SE8-2Z	ORG-SE8-2Z	Selenium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
Si	SXORG-SI8-2Z	ORG-SI8-2Z	Silicon 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 20
Sn	SXORG-SN8-2Z	ORG-SN8-2Z	Tin 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 20
	SXORG-SN8-4Z	ORG-SN8-4Z	Tin 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
S	SXBF-BLKY	BF-BLKY	Sulfur Biodiesel Standard 100 µg/g	100 mL	EA	B100 Biofuel
	SXBFS-100Y	BFS-100Y	Sulfur Biodiesel Standard 10 µg/g	100 mL	EA	B100 Biofuel
	SXBFS-10Y	BFS-10Y	Sulfur Biodiesel Standard 15 µg/g	100 mL	EA	B100 Biofuel
	SXBFS-15Y	BFS-15Y	Sulfur Biodiesel Standard 20 µg/g	100 mL	EA	B100 Biofuel
	SXBFS-20Y	BFS-20Y	Sulfur Biodiesel Standard 25 µg/g	100 mL	EA	B100 Biofuel
	SXBFS-25Y	BFS-25Y	Sulfur Biodiesel Standard 50 µg/g	100 mL	EA	B100 Biofuel
	SXBFS-50Y	BFS-50Y	Sulfur Biodiesel Standard 5 µg/g	100 mL	EA	B100 Biofuel
	SXBFS-5Y	BFS-5Y	Sulfur Oil Standard 10 µg/g	100 mL	EA	B100 Biofuel
	SXDSS8-10Y	DSS8-10Y	Sulfur Oil Standard 15 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-15Y	DSS8-15Y	Sulfur Oil Standard 500 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-1AY	DSS8-1AY	Sulfur Oil Standard 750 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-1BY	DSS8-1BY	Sulfur Oil Standard 100 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-1Y	DSS8-1Y	Sulfur Oil Standard 20 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-20Y	DSS8-20Y	Sulfur Oil Standard 25 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-25Y	DSS8-25Y	Sulfur Oil Standard 1000 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-2Y	DSS8-2Y	Sulfur Oil Standard 5 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-5Y	DSS8-5Y	Sulfur Oil Standard 75 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-75Y	DSS8-75Y	Sulfur Oil Standard 50 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-AY	DSS8-AY	Sulfur Oil Standard 200 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-BY	DSS8-BY	Sulfur Oil Standard 300 µg/g	100 mL	EA	Base Oil 20
	SXDSS8-CY	DSS8-CY	Sulfur Oil Standard	100 mL	EA	Base Oil 20
	SXDSS8-SET	DSS8-SET	Sulfur Oil Standard	100 mL	EA	Base Oil 20
	SXORG-S8-2Z	ORG-S8-2Z	Sulfur 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-S8-4Z	ORG-S8-4Z	Sulfur 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Ti	SXORG-TI8-2Z	ORG-TI8-2Z	Titanium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 20
	SXORG-TI8-4Z	ORG-TI8-4Z	Titanium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Tl	SXORG-TL8-2Z	ORG-TL8-2Z	Thallium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 20

ICP Single Element Oil Standards (continued)

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
V	SXORG-V8-2Z	ORG-V8-2Z	Vanadium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
	SXORG-V8-4Z	ORG-V8-4Z	Vanadium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Y	SXORG-Y8-A-2Z	ORG-Y8-A-2Z	Yttrium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 75
Zn	SXORG-ZN8-2Z	ORG-ZN8-2Z	Zinc 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 20
	SXORG-ZN8-4Z	ORG-ZN8-4Z	Zinc 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75
Zr	SXORG-ZR8-2Z	ORG-ZR8-2Z	Zirconium 1,000 µg/mL (1,000 ppm)	50 g	EA	Base Oil 20
	SXORG-ZR8-4Z	ORG-ZR8-4Z	Zirconium 5,000 µg/mL (5,000 ppm)	50 g	EA	Base Oil 75

Single Element Assurance ICP Standards - 30 mL

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Ag	SXPLAG2-2M	PLAG2-2M	Silver, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Al	SXPLAL2-2M	PLAL2-2M	Aluminum, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
As	SXPLAS2-2M	PLAS2-2M	Arsenic, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Au	SXPLAU3-2M	PLAU3-2M	Gold, 1,000 µg/mL, for AA and ICP	30 mL	EA	10% HCl
B	SXPLB9-2M	PLB9-2M	Boron, 1,000 µg/mL, for AA and ICP	30 mL	EA	H ₂ O
Ba	SXPLBA2-2M	PLBA2-2M	Barium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Be	SXPLBE2-2M	PLBE2-2M	Beryllium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Bi	SXPLBI4-2M	PLBI4-2M	Bismuth, 1,000 µg/mL, for AA and ICP	30 mL	EA	10% HNO ₃
C	SXPLC9-2M	PLC9-2M	Carbon, 1,000 µg/mL, for AA and ICP	30 mL	EA	H ₂ O
Ca	SXPLCA2-2M	PLCA2-2M	Calcium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Cd	SXPLCD2-2M	PLCD2-2M	Cadmium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Ce	SXPLCE2-2M	PLCE2-2M	Cerium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Co	SXPLCO2-2M	PLCO2-2M	Cobalt, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Cr	SXPLCR2-2M	PLCR2-2M	Chromium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Cs	SXPLCS2-2M	PLCS2-2M	Cesium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Cu	SXPLCU2-2M	PLCU2-2M	Copper, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Dy	SXPLDY2-2M	PLDY2-2M	Dysprosium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Er	SXPLER2-2M	PLER2-2M	Erbium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Eu	SXPLEU2-2M	PLEU2-2M	Europium, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Fe	SXPLFE2-2M	PLFE2-2M	Iron, 1,000 µg/mL, for AA and ICP	30 mL	EA	2% HNO ₃
Ga	SXPLGA2-2M	PLGA2-2M	Gallium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Gd	SXPLGD2-2M	PLGD2-2M	Gadolinium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Ge	SXPLGE9-2M	PLGE9-2M	Germanium, 1,000 µg/mL	30 mL	EA	H ₂ O/0.16% F ⁻
Hf	SXPLHF1-2M	PLHF1-2M	Hafnium, 1,000 µg/mL	30 mL	EA	2% HCl
Hg	SXPLHG4-2M	PLHG4-2M	Mercury, 1,000 µg/mL	30 mL	EA	10% HNO ₃
Ho	SXPLHO2-2M	PLHO2-2M	Holmium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
In	SXPLIN2-2M	PLIN2-2M	Indium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Ir	SXPLIR3-2M	PLIR3-2M	Iridium, 1,000 µg/mL	30 mL	EA	10% HCl
K	SXPLK2-2M	PLK2-2M	Potassium, 1,000 µg/mL	30 mL	EA	2% HNO ₃

Single Element Assurance ICP Standards - 30 mL (continued)

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
La	SXPLLA2-2M	PLLA2-2M	Lanthanum, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Li	SXPLLI2-2M	PLLI2-2M	Lithium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Lu	SXPLLU2-2M	PLLU2-2M	Lutetium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Mg	SXPLMG2-2M	PLMG2-2M	Magnesium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Mn	SXPLMN2-2M	PLMN2-2M	Manganese, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Mo	SXPLMO9-2M	PLMO9-2M	Molybdenum, 1,000 µg/mL	30 mL	EA	H ₂ O
Na	SXPLNA2-2M	PLNA2-2M	Sodium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Nb	SXPLNB9-2M	PLNB9-2M	Niobium, 1,000 µg/mL	30 mL	EA	H ₂ O/0.4% HF
Nd	SXPLND2-2M	PLND2-2M	Neodymium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Ni	SXPLNI2-2M	PLNI2-2M	Nickel, 1,000 µg/mL	30 mL	EA	2% HNO ₃
P	SXPLP9-2M	PLP9-2M	Phosphorus, 1,000 µg/mL	30 mL	EA	H ₂ O
Pb	SXPLPB2-2M	PLPB2-2M	Lead, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Pd	SXPLPD3-2M	PLPD3-2M	Palladium, 1,000 µg/mL	30 mL	EA	10% HCL
Pr	SXPLPR2-2M	PLPR2-2M	Praseodymium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Pt	SXPLPT3-2M	PLPT3-2M	Platinum, 1,000 µg/mL	30 mL	EA	10% HCL
Rb	SXPLRB2-2M	PLRB2-2M	Rubidium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Re	SXPLRE9-2M	PLRE9-2M	Rhenium, 1,000 µg/mL	30 mL	EA	H ₂ O
Rh	SXPLRH3-2M	PLRH3-2M	Rhodium, 1,000 µg/mL	30 mL	EA	10% HCL
Ru	SXPLRU3-2M	PLRU3-2M	Ruthenium, 1,000 µg/mL	30 mL	EA	10% HCL
S	SXPLS9-2M	PLS9-2M	Sulfur, 1,000 µg/mL	30 mL	EA	H ₂ O
Sb	SXPLSB7-2M	PLSB7-2M	Antimony, 1,000 µg/mL	30 mL	EA	H ₂ O/0.6% TA/tr. HNO ₃
Sc	SXPLSC2-2M	PLSC2-2M	Scandium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Se	SXPLSE2-2M	PLSE2-2M	Selenium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Si	SXPLSI9-2M	PLSI9-2M	Silicon, 1,000 µg/mL	30 mL	EA	H ₂ O/0.4% F-
Sm	SXPLSM2-2M	PLSM2-2M	Samarium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Sn	SXPLSN5-2M	PLSN5-2M	Tin, 1,000 µg/mL	30 mL	EA	20% HCL
Sr	SXPLSR2-2M	PLSR2-2M	Strontium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Ta	SXPLTA9-2M	PLTA9-2M	Tantalum, 1,000 µg/mL	30 mL	EA	H ₂ O/0.8% HF
Tb	SXPLTB2-2M	PLTB2-2M	Terbium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Te	SXPLTE4-2M	PLTE4-2M	Tellurium, 1,000 µg/mL	30 mL	EA	10% HNO ₃
Th	SXPLTH2-2M	PLTH2-2M	Thorium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Ti	SXPLTI9-2M	PLTI9-2M	Titanium, 1,000 µg/mL	30 mL	EA	H ₂ O
Tl	SXPLTL2-2M	PLTL2-2M	Thallium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Tm	SXPLTM2-2M	PLTM2-2M	Thulium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
U	SXPLU2-2M	PLU2-2M	Uranium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
V	SXPLV2-2M	PLV2-2M	Vanadium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
W	SXPLW9-2M	PLW9-2M	Tungsten, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Y	SXPLY2-2M	PLY2-2M	Yttrium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Yb	SXPLYB2-2M	PLYB2-2M	Ytterbium, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Zn	SXPLZN2-2M	PLZN2-2M	Zinc, 1,000 µg/mL	30 mL	EA	2% HNO ₃
Zr	SXPLZR2-2M	PLZR2-2M	Zirconium, 1,000 µg/mL	30 mL	EA	2% HNO ₃

Single Element Assurance ICP Standards - 125 mL

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Blank	SXICP-KIT-1	ICP-KIT-1	ICP Standards Kit, 1,000 µg/mL	125 mL	EA	Multiple
Ag	SXPLAG2-2Y	PLAG2-2Y	Silver, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLAG2-3Y	PLAG2-3Y	Silver, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Al	SXPLAL2-2Y	PLAL2-2Y	Aluminum, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLAL2-3Y	PLAL2-3Y	Aluminum, 10,000 µg/mL	125 mL	EA	5% HCl
As	SXPLAS2-2Y	PLAS2-2Y	Arsenic, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLAS2-3Y	PLAS2-3Y	Arsenic, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Au	SXPLAU3-2Y	PLAU3-2Y	Gold, 1,000 µg/mL	125 mL	EA	5% HCl
B	SXPLB9-2Y	PLB9-2Y	Boron, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLB9-3Y	PLB9-3Y	Boron, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Ba	SXPLBA2-2Y	PLBA2-2Y	Barium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLBA2-3Y	PLBA2-3Y	Barium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Be	SXPLBE2-2Y	PLBE2-2Y	Beryllium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLBE2-3Y	PLBE2-3Y	Beryllium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Bi	SXPLBI4-2Y	PLBI4-2Y	Bismuth, 1,000 µg/mL	125 mL	EA	2% HNO ₃
C	SXPLC9-2Y	PLC9-2Y	Carbon, 1,000 µg/mL	125 mL	EA	Aqueous
Ca	SXPLCA2-2Y	PLCA2-2Y	Calcium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLCA2-3Y	PLCA2-3Y	Calcium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Cd	SXPLCD2-2Y	PLCD2-2Y	Cadmium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLCD2-3Y	PLCD2-3Y	Cadmium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Ce	SXPLCE2-2Y	PLCE2-2Y	Cerium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLCE2-3Y	PLCE2-3Y	Cerium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Co	SXPLCO2-2Y	PLCO2-2Y	Cobalt, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLCO2-3Y	PLCO2-3Y	Cobalt, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Cr	SXPLCR2-2Y	PLCR2-2Y	Chromium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLCR2-3Y	PLCR2-3Y	Chromium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Cs	SXPLCS2-2Y	PLCS2-2Y	Cesium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLCS2-3Y	PLCS2-3Y	Cesium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Cu	SXPLCU2-2Y	PLCU2-2Y	Copper, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLCU2-3Y	PLCU2-3Y	Copper, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Dy	SXPLDY2-2Y	PLDY2-2Y	Dysprosium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Er	SXPLER2-2Y	PLER2-2Y	Erbium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Eu	SXPLEU2-2Y	PLEU2-2Y	Europium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Fe	SXPLFE2-2Y	PLFE2-2Y	Iron, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLFE2-3Y	PLFE2-3Y	Iron, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Ga	SXPLGA2-2Y	PLGA2-2Y	Gallium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Gd	SXPLGD2-2Y	PLGD2-2Y	Gadolinium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLGD2-3Y	PLGD2-3Y	Gadolinium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Ge	SXPLGE9-2Y	PLGE9-2Y	Germanium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Hf	SXPLHF1-2Y	PLHF1-2Y	Hafnium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Ho	SXPLHO2-2Y	PLHO2-2Y	Holmium, 1,000 µg/mL	125 mL	EA	2% HNO ₃

Single Element Assurance ICP Standards - 125 mL (continued)

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Hg	SXPLHG2-1AY	PLHG2-1AY	Mercury, 10 µg/mL	125 mL	EA	2% HNO ₃
	SXPLHG2-1Y	PLHG2-1Y	Mercury, 100 µg/mL	125 mL	EA	2% HNO ₃
	SXPLHG4-2Y	PLHG4-2Y	Mercury, 1,000 µg/mL	125 mL	EA	10% HNO ₃
	SXPLHG4-3Y	PLHG4-3Y	Mercury, 10,000 µg/mL	125 mL	EA	10% HNO ₃
In	SXPLIN2-2Y	PLIN2-2Y	Indium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Ir	SXPLIR3-2Y	PLIR3-2Y	Iridium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
K	SXPLK2-2Y	PLK2-2Y	Potassium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLK2-3Y	PLK2-3Y	Potassium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
La	SXPLLA2-2Y	PLLA2-2Y	Lanthanum, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLLA2-3Y	PLLA2-3Y	Lanthanum, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Li	SXPLLI2-2Y	PLLI2-2Y	Lithium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLLI2-3Y	PLLI2-3Y	Lithium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Lu	SXPLLU2-2Y	PLLU2-2Y	Lutetium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Mg	SXPLMG2-2Y	PLMG2-2Y	Magnesium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLMG2-3Y	PLMG2-3Y	Magnesium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Mn	SXPLMN2-2Y	PLMN2-2Y	Manganese, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLMN2-3Y	PLMN2-3Y	Manganese, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Mo	SXPLMO9-2Y	PLMO9-2Y	Molybdenum, 1,000 µg/mL	125 mL	EA	H ₂ O
	SXPLMO9-3Y	PLMO9-3Y	Molybdenum, 10,000 µg/mL	125 mL	EA	H ₂ O
Na	SXPLNA2-2Y	PLNA2-2Y	Sodium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLNA2-3Y	PLNA2-3Y	Sodium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Nb	SXPLNB9-2Y	PLNB9-2Y	Niobium, 1,000 µg/mL	125 mL	EA	H ₂ O
	SXPLNB9-3Y	PLNB9-3Y	Niobium, 10,000 µg/mL	125 mL	EA	H ₂ O/0.4% HF
Nd	SXPLND2-2Y	PLND2-2Y	Neodymium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Ni	SXPLNI2-2Y	PLNI2-2Y	Nickel, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLNI2-3Y	PLNI2-3Y	Nickel, 10,000 µg/mL	125 mL	EA	5% HNO ₃
P	SXPLP9-2Y	PLP9-2Y	Phosphorus, 1,000 µg/mL	125 mL	EA	H ₂ O
	SXPLP9-3Y	PLP9-3Y	Phosphorus, 10,000 µg/mL	125 mL	EA	H ₂ O
Pb	SXPLPB2-2Y	PLPB2-2Y	Lead, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLPB2-3Y	PLPB2-3Y	Lead, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Pd	SXPLPD3-2Y	PLPD3-2Y	Palladium, 1,000 µg/mL	125 mL	EA	5% HNO ₃
Pr	SXPLPR2-2Y	PLPR2-2Y	Praseodymium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Pt	SXPLPT3-2Y	PLPT3-2Y	Platinum, 1,000 µg/mL	125 mL	EA	5% HNO ₃
Rb	SXPLRB2-2Y	PLRB2-2Y	Rubidium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Re	SXPLRE9-2Y	PLRE9-2Y	Rhenium, 1,000 µg/mL	125 mL	EA	H ₂ O
Rh	SXPLRH3-2Y	PLRH3-2Y	Rhodium, 1,000 µg/mL	125 mL	EA	10% HCL
Ru	SXPLRU3-2Y	PLRU3-2Y	Ruthenium, 1,000 µg/mL	125 mL	EA	10% HCL
S	SXPLS9-2Y	PLS9-2Y	Sulfur, 1,000 µg/mL	125 mL	EA	H ₂ O
	SXPLS9-3Y	PLS9-3Y	Sulfur, 10,000 µg/mL	125 mL	EA	H ₂ O
Sb	SXPLSB7-2Y	PLSB7-2Y	Antimony, 1,000 µg/mL	125 mL	EA	H ₂ O
	SXPLSB7-3Y	PLSB7-3Y	Antimony, 10,000 µg/mL	125 mL	EA	H ₂ O
Sc	SXPLSC2-2Y	PLSC2-2Y	Scandium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLSC2-3Y	PLSC2-3Y	Scandium, 10,000 µg/mL	125 mL	EA	5% HNO ₃

Single Element Assurance ICP Standards - 125 mL (continued)

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Se	SXPLSE2-2Y	PLSE2-2Y	Selenium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLSE2-3Y	PLSE2-3Y	Selenium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Si	SXPLSI9-2Y	PLSI9-2Y	Silicon, 1,000 µg/mL	125 mL	EA	H ₂ O
	SXPLSI9-3Y	PLSI9-3Y	Silicon, 10,000 µg/mL	125 mL	EA	H ₂ O/4% F-
Sm	SXPLSM2-2Y	PLSM2-2Y	Samarium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Sn	SXPLSN5-2Y	PLSN5-2Y	Tin, 1,000 µg/mL	125 mL	EA	20% HCL
	SXPLSN5-3Y	PLSN5-3Y	Tin, 10,000 µg/mL	125 mL	EA	20% HCL
Sr	SXPLSR2-2Y	PLSR2-2Y	Strontium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLSR2-3Y	PLSR2-3Y	Strontium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Ta	SXPLTA9-2Y	PLTA9-2Y	Tantalum, 1,000 µg/mL	125 mL	EA	H ₂ O
	SXPLTA9-3Y	PLTA9-3Y	Tantalum, 10,000 µg/mL	125 mL	EA	H ₂ O/0.8% HF
Tb	SXPLTB2-2Y	PLTB2-2Y	Terbium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Te	SXPLTE4-2Y	PLTE4-2Y	Tellurium, 1,000 µg/mL	125 mL	EA	10% HNO ₃
Th	SXPLTH2-2Y	PLTH2-2Y	Thorium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Ti	SXPLTI9-2Y	PLTI9-2Y	Titanium, 1,000 µg/mL	125 mL	EA	H ₂ O
	SXPLTI9-3Y	PLTI9-3Y	Titanium, 10,000 µg/mL	125 mL	EA	H ₂ O/0.8% HF
Tl	SXPLTL2-2Y	PLTL2-2Y	Thallium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
Tu	SXPLTM2-2Y	PLTM2-2Y	Thulium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
U	SXPLU2-2Y	PLU2-2Y	Uranium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLU2-3Y	PLU2-3Y	Uranium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
V	SXPLV2-2Y	PLV2-2Y	Vanadium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLV4-3Y	PLV4-3Y	Vanadium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
W	SXPLW9-2Y	PLW9-2Y	Tungsten, 1,000 µg/mL	125 mL	EA	H ₂ O
	SXPLW9-3Y	PLW9-3Y	Tungsten, 10,000 µg/mL	125 mL	EA	H ₂ O
Y	SXPLY2-2Y	PLY2-2Y	Yttrium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLY2-3Y	PLY2-3Y	Yttrium, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Yb	SXPLYB2-2Y	PLYB2-2Y	Ytterbium, 10,000 µg/mL	125 mL	EA	2% HNO ₃
Zn	SXPLZN2-2Y	PLZN2-2Y	Zinc, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLZN2-3Y	PLZN2-3Y	Zinc, 10,000 µg/mL	125 mL	EA	5% HNO ₃
Zr	SXPLZR2-2Y	PLZR2-2Y	Zirconium, 1,000 µg/mL	125 mL	EA	2% HNO ₃
	SXPLZR2-3Y	PLZR2-3Y	Zirconium, 10,000 µg/mL	125 mL	EA	5% HNO ₃

Single Element Assurance ICP Standards - 250 mL

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Ag	SXPLAG2-2T	PLAG2-2T	Silver, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Al	SXPLAL2-2T	PLAL2-2T	Aluminum, 1,000 µg/mL	250 mL	EA	2% HNO ₃
As	SXPLAS2-2T	PLAS2-2T	Arsenic, 1,000 µg/mL	250 mL	EA	2% HNO ₃
B	SXPLB9-2T	PLB9-2T	Boron, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Ba	SXPLBA2-2T	PLBA2-2T	Barium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Be	SXPLBE2-2T	PLBE2-2T	Beryllium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Ca	SXPLCA2-2T	PLCA2-2T	Calcium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
	SXPLCA2-3T	PLCA2-3T	Calcium, 10,000 µg/mL	250 mL	EA	5% HNO ₃
Cd	SXPLCD2-2T	PLCD2-2T	Cadmium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Co	SXPLCO2-2T	PLCO2-2T	Cobalt, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Cr	SXPLCR2-2T	PLCR2-2T	Chromium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Cu	SXPLCU2-2T	PLCU2-2T	Copper, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Fe	SXPLFE2-2T	PLFE2-2T	Iron, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Hg	SXPLHG4-2T	PLHG4-2T	Mercury, 1,000 µg/mL	250 mL	EA	2% HNO ₃
K	SXPLK2-2T	PLK2-2T	Potassium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Mg	SXPLMG2-2T	PLMG2-2T	Magnesium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Mn	SXPLMN2-2T	PLMN2-2T	Manganese, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Mo	SXPLMO9-2T	PLMO9-2T	Molybdenum, 1,000 µg/mL	250 mL	EA	H ₂ O
Na	SXPLNA2-2T	PLNA2-2T	Sodium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Ni	SXPLNI2-2T	PLNI2-2T	Nickel, 1,000 µg/mL	250 mL	EA	2% HNO ₃
P	SXPLP9-2T	PLP9-2T	Phosphorus, 1,000 µg/mL	250 mL	EA	H ₂ O
Pb	SXPLPB2-2T	PLPB2-2T	Lead, 1,000 µg/mL	250 mL	EA	2% HNO ₃
S	SXPLS9-2T	PLS9-2T	Sulfur, 1,000 µg/mL	250 mL	EA	H ₂ O
Sb	SXPLSB7-2T	PLSB7-2T	Antimony, 1,000 µg/mL	250 mL	EA	H ₂ O
Sc	SXPLSC2-2T	PLSC2-2T	Scandium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Se	SXPLSE2-2T	PLSE2-2T	Selenium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Si	SXPLSI9-2T	PLSI9-2T	Silicon, 1,000 µg/mL	250 mL	EA	H ₂ O
Sn	SXPLSN5-2T	PLSN5-2T	Tin, 1,000 µg/mL	250 mL	EA	20% HCL
Sr	SXPLSR2-2T	PLSR2-2T	Strontium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Ti	SXPLTI9-2T	PLTI9-2T	Titanium, 1,000 µg/mL	250 mL	EA	H ₂ O
Tl	SXPLTL2-2T	PLTL2-2T	Thallium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Y	SXPLY2-2T	PLY2-2T	Yttrium, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Zn	SXPLZN2-2T	PLZN2-2T	Zinc, 1,000 µg/mL	250 mL	EA	2% HNO ₃
Zr	SXPLZR2-2T	PLZR2-2T	Zirconium, 1,000 µg/mL	250 mL	EA	2% HNO ₃

Single Element Assurance ICP Standards - 500 mL

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Blank	SXPLBLK-H2O	PLBLK-H2O	DI Water Blank	500 mL	EA	DI Water
	SXPLBLK-H2O-1L	PLBLK-H2O-1L	DI Water Blank	500 mL	EA	DI Water
	SXPLBLK-H2O-2L	PLBLK-H2O-2L	DI Water Blank 2 L	500 mL	EA	DI Water
	SXPLBLK-H2O-4L	PLBLK-H2O-4L	DI Water Blank 4 L	500 mL	EA	DI Water
	SXPLBLK-HCL	PLBLK-HCL	Hydrochloric Acid Blank	500 mL	EA	HCl
	SXPLBLK-HNO3	PLBLK-HNO3	Nitric Acid Blank	500 mL	EA	HNO3
Ag	SXPLAG2-2X	PLAG2-2X	Silver, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLAG2-3X	PLAG2-3X	Silver, 10,000 µg/mL	500 mL	EA	5% HNO3
Al	SXPLAL1-2X	PLAL1-2X	Aluminum, 1,000 µg/mL	500 mL	EA	5% HCl
	SXPLAL1-3X	PLAL1-3X	Aluminum, 10,000 µg/mL	500 mL	EA	2% HNO3
	SXPLAL2-2X	PLAL2-2X	Aluminum, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLAL2-3X	PLAL2-3X	Aluminum, 100,000 µg/mL	500 mL	EA	5% HNO3
As	SXPLAS1-2X	PLAS1-2X	Arsenic, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLAS2-2X	PLAS2-2X	Arsenic, 10,000 µg/mL	500 mL	EA	5% HNO3
	SXPLAS2-3X	PLAS2-3X	Arsenic, 100,000 µg/mL	500 mL	EA	5% HNO3
Au	SXPLAU3-2X	PLAU3-2X	Gold, 1,000 µg/mL	500 mL	EA	10% HCl
Ba	SXPLBA2-2X	PLBA2-2X	Barium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLBA2-3X	PLBA2-3X	Barium, 10,000 µg/mL	500 mL	EA	5% HNO3
Be	SXPLBE2-2X	PLBE2-2X	Beryllium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLBE2-3X	PLBE2-3X	Beryllium, 10,000 µg/mL	500 mL	EA	5% HNO3
Bi	SXPLBI4-2X	PLBI4-2X	Bismuth, 1,000 µg/mL	500 mL	EA	10% HNO3
B	SXPLB9-2X	PLB9-2X	Boron, 1,000 µg/mL	500 mL	EA	H2O
	SXPLB9-3X	PLB9-3X	Boron, 10,000 µg/mL	500 mL	EA	H2O
C	SXPLC9-2X	PLC9-2X	Carbon, 1,000 µg/mL	500 mL	EA	H2O
Ca	SXPLCA1-2X	PLCA1-2X	Calcium, 1,000 µg/mL	500 mL	EA	2% HCl
	SXPLCA1-3X	PLCA1-3X	Calcium, 10,000 µg/mL	500 mL	EA	5% HCl
	SXPLCA2-2X	PLCA2-2X	Calcium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLCA2-3X	PLCA2-3X	Calcium, 10,000 µg/mL	500 mL	EA	5% HNO3
Cd	SXPLCD2-2X	PLCD2-2X	Cadmium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLCD2-3X	PLCD2-3X	Cadmium, 10,000 µg/mL	500 mL	EA	5% HNO3
Ce	SXPLCE2-2X	PLCE2-2X	Cerium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLCE2-3X	PLCE2-3X	Cerium, 10,000 µg/mL	500 mL	EA	5% HNO3
Co	SXPLCO1-2X	PLCO1-2X	Cobalt, 1,000 µg/mL	500 mL	EA	2% HCl
	SXPLCO2-2X	PLCO2-2X	Cobalt, 1,000 µg/mL	500 mL	EA	5% HCl
	SXPLCO2-3X	PLCO2-3X	Cobalt, 10,000 µg/mL	500 mL	EA	2% HNO3
Cr	SXPLCR1-2X	PLCR1-2X	Chromium, 1,000 µg/mL	500 mL	EA	5% HNO3
	SXPLCR2-2X	PLCR2-2X	Chromium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLCR2-3X	PLCR2-3X	Chromium, 10,000 µg/mL	500 mL	EA	5% HNO3
	SXPLCR9-2X	PLCR9-2X	Chromium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLCR9-3X	PLCR9-3X	Chromium, 10,000 µg/mL	500 mL	EA	5% HNO3

Single Element Assurance ICP Standards - 500 mL (continued)

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Cs	SXPLCS2-2X	PLCS2-2X	Cesium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLCS2-3X	PLCS2-3X	Cesium, 10,000 µg/mL	500 mL	EA	2% HNO ₃
Cu	SXPLCU1-2X	PLCU1-2X	Copper, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLCU1-3X	PLCU1-3X	Copper, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLCU2-2X	PLCU2-2X	Copper, 1,000 µg/mL	500 mL	EA	5% HNO ₃
	SXPLCU2-3X	PLCU2-3X	Copper, 10,000 µg/mL	500 mL	EA	2% HNO ₃
Dy	SXPLDY2-2X	PLDY2-2X	Dysprosium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Er	SXPLER2-2X	PLER2-2X	Erbium, 1,000 µg/mL	500 mL	EA	5% HNO ₃
Eu	SXPLEU2-2X	PLEU2-2X	Europium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Fe	SXPLFE1-2X	PLFE1-2X	Iron, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLFE1-3X	PLFE1-3X	Iron, 10,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLFE2-2X	PLFE2-2X	Iron, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLFE2-3X	PLFE2-3X	Iron, 10,000 µg/mL	500 mL	EA	5% HNO ₃
Ga	SXPLGA2-2X	PLGA2-2X	Gallium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Gd	SXPLGD2-2X	PLGD2-2X	Gadolinium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLGD2-3X	PLGD2-3X	Gadolinium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Ge	SXPLGE9-2X	PLGE9-2X	Germanium, 1,000 µg/mL	500 mL	EA	10% HNO ₃
Hf	SXPLHF1-2X	PLHF1-2X	Hafnium, 1,000 µg/mL	500 mL	EA	10% HNO ₃
Hg	SXPLHG2-1AX	PLHG2-1AX	Mercury 10 µg/mL	500 mL	EA	10% HNO ₃
	SXPLHG2-1X	PLHG2-1X	Mercury 100 µg/mL	500 mL	EA	10% HNO ₃
	SXPLHG4-2X	PLHG4-2X	Mercury 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLHG4-3X	PLHG4-3X	Mercury 10,000 µg/mL	500 mL	EA	2% HNO ₃
Ho	SXPLHO2-2X	PLHO2-2X	Holmium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
In	SXPLIN2-2X	PLIN2-2X	Indium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Ir	SXPLIR3-2X	PLIR3-2X	Iridium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
K	SXPLK1-2X	PLK1-2X	Potassium, 1,000 µg/mL	500 mL	EA	2% HCl
	SXPLK1-3X	PLK1-3X	Potassium, 10,000 µg/mL	500 mL	EA	5% HCL
	SXPLK2-2X	PLK2-2X	Potassium, 10,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLK2-3X	PLK2-3X	Potassium, 10,000 µg/mL	500 mL	EA	5% HNO ₃
La	SXPLLA2-2X	PLLA2-2X	Lanthanum, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLLA2-3X	PLLA2-3X	Lanthanum, 10,000 µg/mL	500 mL	EA	5% HNO ₃
Li	SXPLLI1-2X	PLLI1-2X	Lithium, 1,000 µg/mL	500 mL	EA	2% HCL
	SXPLLI1-3X	PLLI1-3X	Lithium, 10,000 µg/mL	500 mL	EA	5% HCL
	SXPLLI2-2X	PLLI2-2X	Lithium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLLI2-3X	PLLI2-3X	Lithium, 10,000 µg/mL	500 mL	EA	5% HNO ₃
Lu	SXPLLU2-2X	PLLU2-2X	Lutetium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Mg	SXPLMG1-2X	PLMG1-2X	Magnesium, 1,000 µg/mL	500 mL	EA	2% HCL
	SXPLMG1-3X	PLMG1-3X	Magnesium, 10,000 µg/mL	500 mL	EA	5% HCL
	SXPLMG2-2X	PLMG2-2X	Magnesium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLMG2-3X	PLMG2-3X	Magnesium, 1,000 µg/mL	500 mL	EA	5% HNO ₃

Single Element Assurance ICP Standards - 500 mL (continued)

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Mn	SXPLMN2-2X	PLMN2-2X	Manganese, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLMN2-3X	PLMN2-3X	Manganese, 10,000 µg/mL	500 mL	EA	5% HNO ₃
Mo	SXPLMO9-2X	PLMO9-2X	Molybdenum, 1,000 µg/mL	500 mL	EA	H ₂ O
	SXPLMO9-3X	PLMO9-3X	Molybdenum, 10,000 µg/mL	500 mL	EA	H ₂ O
Na	SXPLNA1-2X	PLNA1-2X	Sodium, 1,000 µg/mL	500 mL	EA	2% HCL
	SXPLNA1-3X	PLNA1-3X	Sodium, 10,000 µg/mL	500 mL	EA	5% HCL
	SXPLNA2-2X	PLNA2-2X	Sodium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLNA2-3X	PLNA2-3X	Sodium, 10,000 µg/mL	500 mL	EA	5% HNO ₃
Nb	SXPLNB9-2X	PLNB9-2X	Niobium, 1,000 µg/mL	500 mL	EA	H ₂ O
	SXPLNB9-3X	PLNB9-3X	Niobium, 10,000 µg/mL	500 mL	EA	H ₂ O/0.4% HF
Nd	SXPLND2-2X	PLND2-2X	Neodymium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Ni	SXPLNI2-2X	PLNI2-2X	Nickel, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLNI2-3X	PLNI2-3X	Nickel, 10,000 µg/mL	500 mL	EA	5% HNO ₃
P	SXPLP9-2X	PLP9-2X	Phosphorus, 1,000 µg/mL	500 mL	EA	H ₂ O
	SXPLP9-3X	PLP9-3X	Phosphorus, 10,000 µg/mL	500 mL	EA	H ₂ O
Pb	SXPLPB2-2X	PLPB2-2X	Lead, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLPB2-3X	PLPB2-3X	Lead, 10,000 µg/mL	500 mL	EA	5% HNO ₃
Pd	SXPLPD3-2X	PLPD3-2X	Palladium, 1,000 µg/mL	500 mL	EA	10% HCL
Pr	SXPLPR2-2X	PLPR2-2X	Praseodymium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Pt	SXPLPT3-2X	PLPT3-2X	Platinum, 1,000 µg/mL	500 mL	EA	10% HCL
Rb	SXPLRB2-2X	PLRB2-2X	Rubidium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Re	SXPLRE9-2X	PLRE9-2X	Rhenium, 1,000 µg/mL	500 mL	EA	H ₂ O
Rh	SXPLRH3-2X	PLRH3-2X	Rhodium, 1,000 µg/mL	500 mL	EA	10% HCL
Ru	SXPLRU3-2X	PLRU3-2X	Ruthenium, 1,000 µg/mL	500 mL	EA	10% HCL
S	SXPLS9-2X	PLS9-2X	Sulfur, 1,000 µg/mL	500 mL	EA	H ₂ O
	SXPLS9-3X	PLS9-3X	Sulfur, 10,000 µg/mL	500 mL	EA	H ₂ O
Sb	SXPLSB5-2X	PLSB5-2X	Antimony, 1,000 µg/mL	500 mL	EA	20% HCL
	SXPLSB7-2X	PLSB7-2X	Antimony, 1,000 µg/mL	500 mL	EA	H ₂ O
	SXPLSB7-3X	PLSB7-3X	Antimony, 10,000 µg/mL	500 mL	EA	H ₂ O
Sc	SXPLSC2-2X	PLSC2-2X	Scandium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLSC2-3X	PLSC2-3X	Scandium, 10,000 µg/mL	500 mL	EA	5% HNO ₃
Se	SXPLSE2-2X	PLSE2-2X	Selenium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLSE2-3X	PLSE2-3X	Selenium, 10,000 µg/mL	500 mL	EA	5% HNO ₃
Si	SXPLSI9-2X	PLSI9-2X	Silicon, 1,000 µg/mL	500 mL	EA	H ₂ O/0.4% F-
	SXPLSI9-3X	PLSI9-3X	Silicon, 10,000 µg/mL	500 mL	EA	H ₂ O/4% F-
	SXPLSI9A-2X	PLSI9A-2X	Silicon, 1,000 µg/mL	500 mL	EA	H ₂ O
	SXPLSI9A-3X	PLSI9A-3X	Silicon, 10,000 µg/mL	500 mL	EA	H ₂ O
Sm	SXPLSM2-2X	PLSM2-2X	Samarium, 1,000 µg/mL	500 mL	EA	2% HNO ₃
Sn	SXPLSN2-2X	PLSN2-2X	Tin, 1,000 µg/mL	500 mL	EA	1% HNO ₃ /1% HF
	SXPLSN2-3X	PLSN2-3X	Tin, 10,000 µg/mL	500 mL	EA	2% HNO ₃
	SXPLSN5-2X	PLSN5-2X	Tin, 1,000 µg/mL	500 mL	EA	20% HCL
	SXPLSN5-3X	PLSN5-3X	Tin, 10,000 µg/mL	500 mL	EA	20% HCL

Single Element Assurance ICP Standards - 500 mL (continued)

Element	Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
Sr	SXPLSR1-2X	PLSR1-2X	Strontium, 1,000 µg/mL	500 mL	EA	2% HCL
	SXPLSR2-2X	PLSR2-2X	Strontium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLSR2-3X	PLSR2-3X	Strontium, 10,000 µg/mL	500 mL	EA	5% HNO3
Ta	SXPLTA9-2X	PLTA9-2X	Tantalum, 1,000 µg/mL	500 mL	EA	H2O
	SXPLTA9-3X	PLTA9-3X	Tantalum, 10,000 µg/mL	500 mL	EA	H2O/0.8% HF
Tb	SXPLTB2-2X	PLTB2-2X	Terbium, 1,000 µg/mL	500 mL	EA	2% HNO3
Te	SXPLTE4-2X	PLTE4-2X	Tellurium, 1,000 µg/mL	500 mL	EA	10% HNO3
Th	SXPLTH2-2X	PLTH2-2X	Thorium, 1,000 µg/mL	500 mL	EA	2% HNO3
Ti	SXPLTI5-2X	PLTI5-2X	Titanium, 1,000 µg/mL	500 mL	EA	20% HCL
	SXPLTI5-3X	PLTI5-3X	Titanium, 10,000 µg/mL	500 mL	EA	40% HCL
	SXPLTI9-2X	PLTI9-2X	Titanium, 1,000 µg/mL	500 mL	EA	H2O
	SXPLTI9-3X	PLTI9-3X	Titanium, 10,000 µg/mL	500 mL	EA	H2O/2.4% F-
Tl	SXPLTL2-2X	PLTL2-2X	Thallium, 1,000 µg/mL	500 mL	EA	2% HNO3
Tm	SXPLTM2-2X	PLTM2-2X	Thulium, 1,000 µg/mL	500 mL	EA	2% HNO3
U	SXPLU2-2X	PLU2-2X	Uranium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLU2-3X	PLU2-3X	Uranium, 10,000 µg/mL	500 mL	EA	5% HNO3
V	SXPLV1-2X	PLV1-2X	Vanadium, 1,000 µg/mL	500 mL	EA	2% HCL
	SXPLV2-2X	PLV2-2X	Vanadium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLV3-3X	PLV3-3X	Vanadium, 10,000 µg/mL	500 mL	EA	5% HCL
	SXPLV4-3X	PLV4-3X	Vanadium, 10,000 µg/mL	500 mL	EA	5% HNO3
W	SXPLW2-2X	PLW2-2X	Tungsten, 1,000 µg/mL	500 mL	EA	1% HNO3/2% HF
	SXPLW2-3X	PLW2-3X	Tungsten, 10,000 µg/mL	500 mL	EA	2% HNO3
	SXPLW9-2X	PLW9-2X	Tungsten, 1,000 µg/mL	500 mL	EA	H2O
	SXPLW9-3X	PLW9-3X	Tungsten, 10,000 µg/mL	500 mL	EA	H2O
Y	SXPLY2-2X	PLY2-2X	Yttrium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLY2-3X	PLY2-3X	Yttrium, 10,000 µg/mL	500 mL	EA	5% HNO3
Yb	SXPLYB2-2X	PLYB2-2X	Ytterbium, 1,000 µg/mL	500 mL	EA	2% HNO3
Zn	SXPLZN1-2X	PLZN1-2X	Zinc, 1,000 µg/mL	500 mL	EA	20% HCL
	SXPLZN1-3X	PLZN1-3X	Zinc, 10,000 µg/mL	500 mL	EA	5% HCL
	SXPLZN2-2X	PLZN2-2X	Zinc, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLZN2-3X	PLZN2-3X	Zinc, 10,000 µg/mL	500 mL	EA	5% HNO3
Zr	SXPLZR2-2X	PLZR2-2X	Zirconium, 1,000 µg/mL	500 mL	EA	2% HNO3
	SXPLZR2-3X	PLZR2-3X	Zirconium, 10,000 µg/mL	500 mL	EA	5% HNO3
	SXPLZR3-2X	PLZR3-2X	Zirconium, 1,000 µg/mL	500 mL	EA	10% HCL
	SXPLZR3-3X	PLZR3-3X	Zirconium, 10,000 µg/mL	500 mL	EA	H2O

ICP Environmental Mixes

Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
SXCRDL-1	CRDL-1	ICP Contract Req. Detection Limit Std. 1	125 mL	EA	5% HNO ₃
SXCRDL-2	CRDL-2	ICP Contract Req. Detection Limit Std. 2	125 mL	EA	5% HNO ₃
SXCRDL-2A	CRDL-2A	ICP Contract Req. Detection Limi Std. 2A	125 mL	EA	10% HNO ₃
SXDW-SET	DW-SET	Drinking Water Std. w/ Mercury	125 mL	EA	Multiple
SXDW-SETN	DW-SETN	Drinking Water Std. w/o Mercury	125 mL	EA	2% HNO ₃
SXEP-4	EP-4	Secondary Drinking Water Metals	125 mL	EA	2% HNO ₃
SXEP-4-500	EP-4-500	Secondary Drinking Water Metals	500 mL	EA	2% HNO ₃
SXEP-8	EP-8	Primary Drinking Water Metals w/ Mercury	125 mL	EA	Multiple
SXEP-8-500	EP-8-500	Primary Drinking Water Metals w/o Metals	500 mL	EA	2% HNO ₃
SXEP-8-500N	EP-8-500N	Primary Drinking Water Metals w/o Mercury	500 mL	EA	2% HNO ₃
SXEP-8N	EP-8N	Primary Drinking Water Metals w/ Mercury	125 mL	EA	2% HNO ₃
SXICAL-1	ICAL-1	Instrument Cal. Standard 1 (5,000 ppm)	125ML	EA	5% HNO ₃
SXICAL-2	ICAL-2	Instrument Cal. Standard 2	125 mL	EA	5% HNO ₃
SXICAL-3	ICAL-3	Instrument Cal. Standard 3	125 mL	EA	5% HNO ₃
SXICAL-4A	ICAL-4A	Instrument Cal. Standard 4	125 mL	EA	5% HNO ₃
SXICAL-4A-500	ICAL-4A-500	Instrument Cal. Standard 4	500 mL	EA	5% HNO ₃
SXICV-1A	ICV-1A	Initial Cal. Verification Standard. 1A	500 mL	EA	5% HNO ₃
SXICV-3	ICV-3	Initial Cal. Verification Standard. 1	500 mL	EA	5% HNO ₃
SXINT-A1	INT-A1	ICP Interferents A1	500 mL	EA	5% HNO ₃
SXINT-A2	INT-A2	ICP Alternate Interferents (1,000 ppm)	500 mL	EA	5% HNO ₃ /tr. F-
SXINT-B1	INT-B1	ICP Analytes B1	125 mL	EA	5% HNO ₃
SXINT-B2	INT-B2	ICP Alternate Interferents B	500 mL	EA	5% HNO ₃
SXINT-B3	INT-B3	ICP Analytes B3	125 mL	EA	5% HNO ₃
SXINTER-SET	INTER-SET	Interference Check Standards w/ Mercury	125 mL	EA	Multiple
SXINTER-SETN	INTER-SETN	Interference Check Standards w/o Mercury	125 mL	EA	Multiple
SXINTER18-100	INTER18-100	Interference Check Standard 18 w/ Mercury	125 mL	EA	5% HNO ₃
SXINTER18-100N	INTER18-100N	Interference Check Standard 18 w/o Mercury	125 mL	EA	5% HNO ₃
SXINTER18-500	INTER18-500	Interference Check Standard 18 w/o Mercury	500 mL	EA	5% HNO ₃
SXINTER18-500N	INTER18-500N	Interference Check Standard 18 w/o Mercury	500 mL	EA	5% HNO ₃
SXINTER5-100	INTER5-100	Interference Check Standard 5	125 mL	EA	5% HNO ₃
SXINTER5-500	INTER5-500	Interference Check Standard 5	500 mL	EA	5% HNO ₃
SXLFS-1-100	LFS-1-100	LFS Solution 1 with Mercury	125 mL	EA	5% HNO ₃ /TR
SXLFS-1-100N	LFS-1-100N	LFS Solution 1 without Mercury	125 mL	EA	5% HNO ₃ /TR
SXLPC-1-500	LPC-1-500	LPC Standard with Mercury	500 mL	EA	5% HNO ₃ /TR
SXLPC-1-500N	LPC-1-500N	LPC Standard without Mercury	500 mL	EA	5% HNO ₃ /TR
SXMN-4	MN-4	Alternate Metals III	125 mL	EA	2% HNO ₃
SXMN-4-500	MN-4-500	Alternate Metals III	500 mL	EA	2% HNO ₃
SXMN-6	MN-6	Trace Metals III	125 mL	EA	2% HNO ₃
SXMN-6-500	MN-6-500	Trace Metals III	500 mL	EA	2% HNO ₃
SXMXSTD-SETAN	MXSTD-SETAN	Calibration Standards w/o Mercury	125 mL	EA	Multiple
SXMXSTD4A-100N	MXSTD4A-100N	Mixed Calibration Standard 4A w/o Mercury	125 mL	EA	5% HNO ₃ /tr. HF

ICP Oil Mixes

Avantor Catalog No.	CertiPrep Part No.	Description	Volume	UOM	Matrix
SXBFM-10Y	BFM-10Y	Sulfur Biodiesel Standard, 10 µg/g	100 mL	EA	B100 Biofuel
SXBFM-20Y	BFM-20Y	Sulfur Biodiesel Standard, 20 µg/g	100 mL	EA	B100 Biofuel
SXBFM-5Y	BFM-5Y	Sulfur Biodiesel Standard 5 µg/g	100 mL	EA	B100 Biofuel