

# Product Specification

## ICP-MS Blend, 8 Elements at 20 ppm

**Lot Number:** SAMPLE**Product Number:** RICPMS80**Manufacture Date:** N/A**Expiration Date:** N/A

This is a multielement solution that was prepared volumetrically to contain the elements and concentrations stated below. The uncertainty associated with the certified values is  $\pm 0.5\%$  relative. The concentrations are confirmed by ICP or ICP-MS.

**Matrix:** 3% Nitric Acid

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals

Test	Specification	Result
Appearance	Colorless to blue-green liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Chromium (Cr)	19.9-20.1 ppm	Chromium Nitrate Nonahydrate	7789-02-8	High Purity	3112
Barium (Ba)	19.9-20.1 ppm	Barium Nitrate	10022-31-8	High Purity	3104
Selenium (Se)	19.9-20.1 ppm	Selenium	7782-49-2	High Purity	3149
Copper (Cu)	19.9-20.1 ppm	Copper	7440-50-8	High Purity	3114
Silver (Ag)	19.9-20.1 ppm	Silver	7440-22-4	High Purity	3151
Nickel (Ni)	19.9-20.1 ppm	Nickel	7440-02-0	High Purity	3136
Manganese (Mn)	19.9-20.1 ppm	Manganese	7439-96-5	High Purity	3132
Lead (Pb)	19.9-20.1 ppm	Lead	7439-92-1	High Purity	3128

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
RICPMS80-500B	500 mL amber poly	12 months

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)

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