

Product Specification

Mixed Calibration Standard 1A, ICP

Lot Number: SAMPLE

Product Number: RMXCL1A

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 $\pm 1\%$ relative. The concentrations are confirmed by ICP or ICP-MS.

Matrix: 5% Nitric Acid

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals
Hydrochloric Acid	7647-01-0	Trace Metals
Ammonium Hydroxide	1336-21-6	Trace Metals
Tartaric Acid	87-69-4	ACS

Test	Specification	Result
Appearance	Colorless liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Calcium (Ca)	99-101 ppm	Calcium Carbonate	471-34-1	High Purity	3109
Arsenic (As)	99-101 ppm	Arsenic Trioxide	1327-53-3	High Purity	3103
Boron (B)	19.8-20.2 ppm	Boric Acid	10043-35-3	High Purity	3107
Manganese (Mn)	19.8-20.2 ppm	Manganous Nitrate Tetrahydrate	15710-66-4	High Purity	3132
Antimony (Sb)	49.5-50.5 ppm	Antimony	7440-36-0	High Purity	3102
Selenium (Se)	49.5-50.5 ppm	Selenium	7782-49-2	High Purity	3149
Copper (Cu)	19.8-20.2 ppm	Copper	7440-50-8	High Purity	3114
Cadmium (Cd)	19.8-20.2 ppm	Cadmium	7440-43-9	High Purity	3108
Barium (Ba)	9.9-10.1 ppm	Barium Nitrate	10022-31-8	High Purity	3104
Silver (Ag)	4.95-5.05 ppm	Silver Nitrate	7761-88-8	High Purity	3151

This standard is guaranteed to be stable and accurate provided the product is kept tightly capped and stored under normal laboratory conditions. Balances are calibrated using NIST traceable weights whose verification of maintenance and recalibration is documented per in-house Standard Operating Procedures. Class A glassware is also calibrated and routinely rechecked per in-house Standard Operating Procedures. Trace metal analyzed acids and Trace Metals Analyzed Water are used in the manufacture of this product. Triple cleaned containers are used in the manufacture of this product.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
RMXCL1A-100	100 mL amber poly	12 months
RMXCL1A-500	500 mL amber poly	12 months

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

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