

Product Specification

Quality Control Standard 7A

Lot Number: SAMPLE

Product Number: RQC7A

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: 5% Nitric Acid

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals
Hydrofluoric Acid	7664-39-3	Trace Metals
Ammonium Hydroxide	1336-21-6	Trace Metals

Test	Specification	Result
Appearance	Colorless liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Potassium (K)	995-1005 ppm	Potassium Nitrate	7757-79-1	High Purity	3141
Aluminum (Al)	99.5-100.5 ppm	Aluminum Nitrate Nonahydrate	7784-27-2	High Purity	3101
Boron (B)	99.5-100.5 ppm	Boric Acid	10043-35-3	High Purity	3107
Silicon (Si)	497.5-502.5 ppm	Silicon	7440-21-3	High Purity	3150
Sodium (Na)	99.5-100.5 ppm	Sodium Carbonate	497-19-8	High Purity	3152
Barium (Ba)	99.5-100.5 ppm	Barium Nitrate	10022-31-8	High Purity	3104
Silver (Ag)	49.7-50.2 ppm	Silver	7440-22-4	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)
RQC7A-100	100 mL amber poly	12 months
RQC7A-500	500 mL amber poly	12 months

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

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