

Product Specification

Quality Control Standard 15 for ICP

Lot Number: SAMPLE

Product Number: RQC15

Manufacture Date: N/A

Expiration Date: N/A

This is a multielement solution that was prepared gravimetrically 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

Test	Specification	Result
Appearance	Light colored liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Aluminum (Al)	99.5-100.5 ppm	Aluminum Nitrate Nonahydrate	7784-27-2	High Purity	3101
Chromium (Cr)	99.5-100.5 ppm	Chromium Nitrate Nonahydrate	7789-02-8	High Purity	3112
Titanium (Ti)	99.5-100.5 ppm	Ammonium Hexafluorotitanate	16962-40-6	High Purity	3162
Calcium (Ca)	99.5-100.5 ppm	Calcium Carbonate	471-34-1	High Purity	3109
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
Zinc (Zn)	99.5-100.5 ppm	Zinc	7440-66-6	High Purity	3168
Copper (Cu)	99.5-100.5 ppm	Copper	7440-50-8	High Purity	3114
Cobalt (Co)	99.5-100.5 ppm	Cobalt	7440-48-4	High Purity	3113
Cadmium (Cd)	99.5-100.5 ppm	Cadmium	7440-43-9	High Purity	3108
Nickel (Ni)	99.5-100.5 ppm	Nickel	7440-02-0	High Purity	3136
Manganese (Mn)	99.5-100.5 ppm	Manganese	7439-96-5	High Purity	3132
Magnesium (Mg)	99.5-100.5 ppm	Magnesium	7439-95-4	High Purity	3131
Lead (Pb)	99.5-100.5 ppm	Lead	7439-92-1	High Purity	3128
Iron (Fe)	99.5-100.5 ppm	Iron	7439-89-6	High Purity	3126

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)
RQC15-500	500 mL natural poly	12 months

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

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