

Product Specification

Quality Control Standard 23 (Modified)

Lot Number: SAMPLE

Product Number: RQC23MOD

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/trace HF

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	Light colored liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Antimony (Sb)	99.5-100.5 ppm	Antimony Trioxide	1309-64-4	High Purity	3102
Arsenic (As)	99.5-100.5 ppm	Arsenic	7440-38-2	High Purity	3103
Beryllium (Be)	99.5-100.5 ppm	Beryllium	7440-41-7	High Purity	3105
Cadmium (Cd)	99.5-100.5 ppm	Cadmium	7440-43-9	High Purity	3108
Calcium (Ca)	99.5-100.5 ppm	Calcium Carbonate	471-34-1	High Purity	3109
Chromium (Cr)	99.5-100.5 ppm	Chromium Nitrate Nonahydrate	7789-02-8	High Purity	3112
Cobalt (Co)	99.5-100.5 ppm	Cobalt	7440-48-4	High Purity	3113
Copper (Cu)	99.5-100.5 ppm	Copper	7440-50-8	High Purity	3114
Iron (Fe)	99.5-100.5 ppm	Iron	7439-89-6	High Purity	3126
Lead (Pb)	99.5-100.5 ppm	Lead	7439-92-1	High Purity	3128
Lithium (Li)	99.5-100.5 ppm	Lithium Nitrate	7790-69-4	High Purity	3129
Magnesium (Mg)	99.5-100.5 ppm	Magnesium	7439-95-4	High Purity	3131
Manganese (Mn)	99.5-100.5 ppm	Manganese	7439-96-5	High Purity	3132
Molybdenum (Mo)	99.5-100.5 ppm	Ammonium Molybdate	13106-76-8	High Purity	3134
Nickel (Ni)	99.5-100.5 ppm	Nickel	7440-02-0	High Purity	3136
Phosphorus (P)	99.5-100.5 ppm	Ammonium Dihydrogen Phosphate	7722-76-1	High Purity	3139
Selenium (Se)	99.5-100.5 ppm	Selenium Dioxide	7446-08-4	High Purity	3149
Strontium (Sr)	99.5-100.5 ppm	Strontium Carbonate	1633-05-2	High Purity	3153
Thallium (Tl)	99.5-100.5 ppm	Thallium	7440-28-0	High Purity	3158
Tin (Sn)	99.5-100.5 ppm	Tin	7440-31-5	High Purity	3161
Titanium (Ti)	99.5-100.5 ppm	Titanium	7440-32-6	High Purity	3162
Vanadium (V)	99.5-100.5 ppm	Vanadium	7440-62-2	High Purity	3165
Zinc (Zn)	99.5-100.5 ppm	Zinc	7440-66-6	High Purity	3168

Specification	Reference
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Quality Control Std 23 (Modified)	EPA (200.7)
Quality Control Std 23 (Modified)	EPA (SW-846) (6010)

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 inhouse Standard Operating Procedures. Class A glassware is also calibrated and routinely rechecked per inhouse 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)
RQC23MOD-100	100 mL natural LDPE	12 months
RQC23MOD-500	500 mL natural poly	12 months

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



Katie Schnur
Quality Control Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."