

Product Specification

Lab Performance Check, Method 200.7

Lot Number: SAMPLE

Product Number: RLPC1

Manufacture Date: N/A

Expiration Date: N/A

This is a multielement blend solution that was prepared volumetrically to contain the certified values reported. The uncertainty associated with the certified values is the sum of the estimated errors due to the purity of the raw material, the volumetric preparation of the solution, and transpiration of the solution through the container wall.

The final solution concentrations are confirmed by AA, 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	Light colored liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Silicon (Si)	99-101 ppm	Ammonium Hexafluorosilicate (IV)	16919-19-0	High Purity	3150
Phosphorus (P)	99-101 ppm	Ammonium Dihydrogen Phosphate	7722-76-1	High Purity	3139
Aluminum (Al)	19.8-20.2 ppm	Aluminum Nitrate Nonahydrate	7784-27-2	High Purity	3101
Potassium (K)	99-101 ppm	Potassium Carbonate	584-08-7	High Purity	3141
Chromium (Cr)	19.8-20.2 ppm	Chromium Nitrate Nonahydrate	7789-02-8	High Purity	3112
Boron (B)	19.8-20.2 ppm	Boric Acid	10043-35-3	High Purity	3107
Lithium (Li)	19.8-20.2 ppm	Lithium Carbonate, 6Li ₂ CO ₃	554-13-2	High Purity	3129
Calcium (Ca)	19.8-20.2 ppm	Calcium Carbonate	471-34-1	High Purity	3109
Sodium (Na)	19.8-20.2 ppm	Sodium Carbonate	497-19-8	High Purity	3152
Molybdenum (Mo)	19.8-20.2 ppm	Ammonium Molybdate	13106-76-8	High Purity	3134
Barium (Ba)	19.8-20.2 ppm	Barium Nitrate	10022-31-8	High Purity	3104
Strontium (Sr)	19.8-20.2 ppm	Strontium Carbonate	1633-05-2	High Purity	3153
Arsenic (As)	19.8-20.2 ppm	Arsenic Trioxide	1327-53-3	High Purity	3103
Antimony (Sb)	19.8-20.2 ppm	Antimony Trioxide	1309-64-4	High Purity	3102
Selenium (Se)	19.8-20.2 ppm	Selenium	7782-49-2	High Purity	3149
Zinc (Zn)	19.8-20.2 ppm	Zinc	7440-66-6	High Purity	3168
Vanadium (V)	19.8-20.2 ppm	Vanadium	7440-62-2	High Purity	3165
Copper (Cu)	19.8-20.2 ppm	Copper	7440-50-8	High Purity	3114
Cobalt (Co)	19.8-20.2 ppm	Cobalt	7440-48-4	High Purity	3113

Cadmium (Cd)	19.8-20.2 ppm	Cadmium	7440-43-9	High Purity	3108
Beryllium (Be)	19.8-20.2 ppm	Beryllium	7440-41-7	High Purity	3105
Tin (Sn)	19.8-20.2 ppm	Tin	7440-31-5	High Purity	3161
Thallium (Tl)	19.8-20.2 ppm	Thallium	7440-28-0	High Purity	3158
Nickel (Ni)	19.8-20.2 ppm	Nickel	7440-02-0	High Purity	3136
Mercury (Hg)	19.8-20.2 ppm	Mercury	7439-97-6	ACS	3133
Manganese (Mn)	19.8-20.2 ppm	Manganese	7439-96-5	High Purity	3132
Magnesium (Mg)	19.8-20.2 ppm	Magnesium	7439-95-4	High Purity	3131
Lead (Pb)	19.8-20.2 ppm	Lead	7439-92-1	High Purity	3128
Iron (Fe)	19.8-20.2 ppm	Iron	7439-89-6	High Purity	3126
Silver (Ag)	4.95-5.05 ppm	Silver	7440-22-4	High Purity	3151

Specification	Reference
---------------	-----------

Lab Performance Check, Method 200.7

EPA (200.7)

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)
-------------	---------------------	---------------------------------

RLPC1-100

100 mL amber poly

12 months

RLPC1-500

500 mL amber poly

12 months

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

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

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.