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Product Specification

Contract Required Detection Limits (CRDL) Standard 1R, CLP

Lot Number: SAMPLE Product Number: RCRDL1R

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	Colorless liquid	N/A	

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Arsenic (As)	119.4-120.6 ppm	Arsenic Trioxide	1327-53-3	High Purity	3103
Chromium (Cr)	19.9-20.1 ppm	Chromium Nitrate Nonahydrate	7789-02-8	High Purity	3112
Antimony (Sb)	119.4-120.6 ppm	Antimony Trioxide	1309-64-4	High Purity	3102
Selenium (Se)	119.4-120.6 ppm	Selenium	7782-49-2	High Purity	3149
Thallium (Tl)	119.4-120.6 ppm	Thallium	7440-28-0	High Purity	3158
Lead (Pb)	119.4-120.6 ppm	Lead	7439-92-1	High Purity	3128
Vanadium (V)	99.5-100.5 ppm	Vanadium	7440-62-2	High Purity	3165
Cobalt (Co)	99.5-100.5 ppm	Cobalt	7440-48-4	High Purity	3113
Nickel (Ni)	79.6-80.4 ppm	Nickel	7440-02-0	High Purity	3136
Copper (Cu)	49.7-50.3 ppm	Copper	7440-50-8	High Purity	3114
Zinc (Zn)	39.8-40.2 ppm	Zinc	7440-66-6	High Purity	3168
Manganese (Mn)	29.8-30.2 ppm	Manganese	7439-96-5	High Purity	3132
Silver (Ag)	19.9-20.1 ppm	Silver	7440-22-4	High Purity	3151
Cadmium (Cd)	10.0-10.1 ppm	Cadmium	7440-43-9	High Purity	3108
Beryllium (Be)	10.0-10.1 ppm	Beryllium	7440-41-7	High Purity	3105

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)
RCRDL1R-100	100 mL amber poly	12 months

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

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This test report shall not be repr	roduced, except in full, without the writte	en approval of Ricca Chemical Company.	