RICCA CHEMICAL COMPANY®

Product Specification

Laboratory Performance Check Standard, Rev 2

Lot Number: SAMPLE

Product Number: RLPC1R

Arlington, TX 76012 Pocomoke City, MD 21851 Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA customerservice@riccachemical.com

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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

Teat

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

Smooificatio

is (ppm) 00.5 ppm 00.5 ppm 0.1 ppm	Light colored liqui Solute Ammonium Hexafluorosilicate (IV) Ammonium Dihydrogen Phosphate	d 1 CAS# 16919-19-0 7722-76-1	N/A Grade High Purity	NIST SRM# 3150
00.5 ppm 00.5 ppm	Ammonium Hexafluorosilicate (IV) Ammonium Dihydrogen	16919-19-0	High Purity	
00.5 ppm	Hexafluorosilicate (IV) Ammonium Dihydrogen			3150
	• •	7722-76-1	TT: 1 D ::	
0.1 ppm			High Purity	3139
	Aluminum Nitrate Nonahydrate	7784-27-2	High Purity	3101
00.5 ppm	Potassium Carbonate	584-08-7	High Purity	3141
0.1 ppm	Chromium Nitrate Nonahydrate	7789-02-8	High Purity	3112
0.1 ppm	Boric Acid	10043-35-3	High Purity	3107
0.1 ppm	Lithium Carbonate, 6Li2CO3	554-13-2	High Purity	3129
0.1 ppm	Ammonium Hexafluorotitanate	16962-40-6	High Purity	3162
0.1 ppm	Calcium Carbonate	471-34-1	High Purity	3109
0.1 ppm	Sodium Carbonate	497-19-8	High Purity	3152
0.1 ppm	Ammonium Molybdate	13106-76-8	High Purity	3134
0.1 ppm	Barium Nitrate	10022-31-8	High Purity	3104
0.1 ppm	Strontium Carbonate	1633-05-2	High Purity	3153
0.1 ppm	Arsenic Trioxide	1327-53-3	High Purity	3103
0.1 ppm	Antimony Trioxide	1309-64-4	High Purity	3102
0.1 ppm	Selenium	7782-49-2	High Purity	3149
0.1 ppm	Zinc	7440-66-6	High Purity	3168
0.1 ppm	Vanadium	7440-62-2	High Purity	3165
0.1 ppm	Copper	7440-50-8	High Purity	3114
0.1	Cobalt	7440-48-4	High Purity	3113
(0.1 ppm 0.1 ppm 0.1 ppm	0.1 ppmSelenium0.1 ppmZinc0.1 ppmVanadium0.1 ppmCopper	0.1 ppm Selenium 7782-49-2 0.1 ppm Zinc 7440-66-6 0.1 ppm Vanadium 7440-62-2 0.1 ppm Copper 7440-50-8 0.1 ppm Cobalt 7440-48-4	0.1 ppmSelenium7782-49-2High Purity0.1 ppmZinc7440-66-6High Purity0.1 ppmVanadium7440-62-2High Purity0.1 ppmCopper7440-50-8High Purity

Version: 1.5

Cadmium (Cd)	19.9 - 20.1 ppm	Cadmium	7440-43-9	High Purity	3108
Beryllium (Be)	19.9-20.1 ppm	Beryllium	7440-41-7	High Purity	3105
Tin (Sn)	19.9-20.1 ppm	Tin	7440-31-5	High Purity	3161
Thallium (Tl)	19.9-20.1 ppm	Thallium	7440-28-0	High Purity	3158
Nickel (Ni)	19.9-20.1 ppm	Nickel	7440-02-0	High Purity	3136
Manganese (Mn)	19.9-20.1 ppm	Manganese	7439-96-5	High Purity	3132
Magnesium (Mg)	19.9-20.1 ppm	Magnesium	7439-95-4	High Purity	3131
Lead (Pb)	19.9-20.1 ppm	Lead	7439-92-1	High Purity	3128
Iron (Fe)	19.9-20.1 ppm	Iron	7439-89-6	High Purity	3126
Silver (Ag)	4.97-5.03 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)
RLPC1R-16	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."

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