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Product Specification

ICP Blend, 17 Elements in 2% HNO₃/tr HF

Lot Number: SAMPLE Product Number: RICP6400

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: Water

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#
Chromium (Cr)	49.5-50.5 ppm	Chromium Nitrate Nonahydrate	7789-02-8	High Purity	3112
Barium (Ba)	49.5-50.5 ppm	Barium Nitrate	10022-31-8	High Purity	3104
Zinc (Zn)	49.5-50.5 ppm	Zinc	7440-66-6	High Purity	3168
Copper (Cu)	49.5-50.5 ppm	Copper	7440-50-8	High Purity	3114
Lead (Pb)	49.5-50.5 ppm	Lead	7439-92-1	High Purity	3128
Vanadium (V)	29.7-30.3 ppm	Vanadium	7440-62-2	High Purity	3165
Nickel (Ni)	24.7-25.3 ppm	Nickel	7440-02-0	High Purity	3136
Antimony (Sb)	19.8-20.2 ppm	Antimony Trioxide	1309-64-4	High Purity	3102
Cobalt (Co)	19.8-20.2 ppm	Cobalt	7440-48-4	High Purity	3113
Molybdenum (Mo)	19.8-20.2 ppm	Molybdenum	7439-98-7	High Purity	3134
Manganese (Mn)	19.8-20.2 ppm	Manganese	7439-96-5	High Purity	3132
Cadmium (Cd)	9.9-10.1 ppm	Cadmium	7440-43-9	High Purity	3108
Arsenic (As)	9.9-10.1 ppm	Arsenic	7440-38-2	High Purity	3103
Silver (Ag)	9.9-10.1 ppm	Silver	7440-22-4	High Purity	3151
Selenium (Se)	4.95-5.05 ppm	Selenium	7782-49-2	High Purity	3149
Beryllium (Be)	4.95-5.05 ppm	Beryllium	7440-41-7	High Purity	3105
Thallium (Tl)	4.95-5.05 ppm	Thallium	7440-28-0	High Purity	3158

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)
RICP6400-100B	100 mL amber poly	12 months

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Recommended Storage: 15°C - 30°C	C (59°F - 86°F)		
This document is designed to comply with Contents of Certificates and Labels."	ISO Guide 31 "Reference Materi	als…	
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