

Product Specification

ICP Mix 1, 13 elements
Na 2000, Ca K Mg 1000, Fe 500, Al 200, Ba Mn Sr Ti V Zn B 50ppm
Lot Number: SAMPLE
Product Number: RICP7043
Manufacture Date: N/A
Recommended Retest 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: 2% nitric acid w/ 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

Test	Specification	Result
Appearance	colorless liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Sodium (Na)	1995-2005	Sodium Carbonate	497-19-8	High Purity	3152
Aluminum (Al)	195-205	Aluminum Nitrate Nonahydrate	7784-27-2	High Purity	3101
Potassium (K)	995-1005	Potassium Nitrate	7757-79-1	High Purity	3141
Calcium (Ca)	995-1005	Calcium Carbonate	471-34-1	High Purity	3109
Magnesium (Mg)	995-1005	Magnesium	7439-95-4	High Purity	3131
Iron (Fe)	495-505	Iron	7439-89-6	High Purity	3126
Boron (B)	49.5-50.5	Ammonium Tetrafluoroborate	13826-83-0	High Purity	3107
Vanadium (V)	49.5-50.5	Ammonium Metavanadate	7803-55-6	High Purity	3165
Barium (Ba)	49.5-50.5	Barium Nitrate	10022-31-8	High Purity	3104
Strontium (Sr)	49.5-50.5	Strontium Carbonate	1633-05-2	High Purity	3153
Zinc (Zn)	49.5-50.5	Zinc	7440-66-6	High Purity	3168
Titanium (Ti)	49.5-50.5	Titanium	7440-32-6	High Purity	3162
Manganese (Mn)	49.5-50.5 ppm	Manganese	7439-96-5	High Purity	3132

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)
RICP7043-500B	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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