

# Product Specification

## ICP Blend, 12 Elements @ 100 ppm in 5% HNO<sub>3</sub>

**Lot Number:** SAMPLE

**Product Number:** RPMX053N

**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

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 to slightly colored liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Chromium (Cr)	99.5-100.5 ppm	Chromium Nitrate Nonahydrate	7789-02-8	High Purity	3112
Titanium (Ti)	99.5-100.5 ppm	Ammonium Hexafluorotitanate	16962-40-6	High Purity	3162
Antimony (Sb)	99.5-100.5 ppm	Antimony Trioxide	1309-64-4	High Purity	3102
Selenium (Se)	99.5-100.5 ppm	Selenium	7782-49-2	High Purity	3149
Zinc (Zn)	99.5-100.5 ppm	Zinc	7440-66-6	High Purity	3168
Vanadium (V)	99.5-100.5 ppm	Vanadium	7440-62-2	High Purity	3165
Copper (Cu)	99.5-100.5 ppm	Copper	7440-50-8	High Purity	3114
Cobalt (Co)	99.5-100.5 ppm	Cobalt	7440-48-4	High Purity	3113
Cadmium (Cd)	99.5-100.5 ppm	Cadmium	7440-43-9	High Purity	3108
Arsenic (As)	99.5-100.5 ppm	Arsenic	7440-38-2	High Purity	3103
Tin (Sn)	99.5-100.5 ppm	Tin	7440-31-5	High Purity	3161
Nickel (Ni)	99.5-100.5 ppm	Nickel	7440-02-0	High Purity	3136

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)
RPMX053N-500N	500 mL natural poly	12 months

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

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