

# Product Specification

## ICP-MS Interference Check Standard 1

**Lot Number:** SAMPLE

**Product Number:** RMSIFCK1

**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
Nitric Acid	7697-37-2	Trace Metals
Ammonium Sulfate	7783-20-2	High Purity
Ammonium Hydroxide	1336-21-6	Trace Metals
Hydrofluoric Acid	7664-39-3	Trace Metals

Test	Specification	Result	NIST SRM#
Appearance	Yellow-brown liquid	N/A	
Sulfur (S)	995-1005 ppm	N/A	3154

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Chloride (Cl)	9950-10050 ppm	Water	7732-18-5	ACS/ASTM/USP /EP	
Aluminum (Al)	995-1005 ppm	Aluminum Nitrate Nonahydrate	7784-27-2	High Purity	3101
Chloride (Cl)	9950-10050 ppm	Hydrochloric Acid	7647-01-0	ACS	
Carbon (C)	1990-2010 ppm	Acetic Acid	64-19-7	ACS	
Phosphorus (P)	995-1005 ppm	Ammonium Dihydrogen Phosphate	7722-76-1	High Purity	3139
Calcium (Ca)	995-1005 ppm	Calcium Carbonate	471-34-1	High Purity	3109
Sodium (Na)	995-1005 ppm	Sodium Carbonate	497-19-8	High Purity	3152
Potassium (K)	995-1005 ppm	Potassium Carbonate	584-08-7	High Purity	3141
Magnesium (Mg)	995-1005 ppm	Magnesium	7439-95-4	High Purity	3131
Iron (Fe)	995-1005 ppm	Iron	7439-89-6	High Purity	3126
Titanium (Ti)	19.9-20.1 ppm	Ammonium Hexafluorotitanate	16962-40-6	High Purity	3162
Molybdenum (Mo)	19.9-20.1 ppm	Ammonium Molybdate	13106-76-8	High Purity	3134

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)
RMSIFCK1-100	100 mL natural LDPE	12 months

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

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