

Product Specification

ICP-MS 5-Element Mix

Lot Number: SAMPLE

Product Number: RICPMS31

Manufacture Date: N/A

Recommended Retest 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: water

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Hydrochloric Acid	7647-01-0	Trace Metals
Nitric Acid	7697-37-2	Trace Metals
Gold	7440-57-5	High Purity

Test	Specification	Result	NIST SRM#
Appearance	clear, light brown/gold	N/A	
Silver (Ag)	0.9-1.1 ppm	N/A	3151

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Rhodium (Rh)	0.9-1.1 ppm	Rhodium (III) Chloride Hydrate	20765-98-4	High Purity	3144
Ruthenium (Ru)	0.9-1.1 ppm	Ruthenium (III) Chloride Hydrate	14898-67-0	High Purity	
Iridium (Ir)	0.9-1.1 ppm	Iridium (III) Chloride Trihydrate	13569-57-8	High Purity	
Platinum (Pt)	0.9-1.1 ppm	Platinum	7440-06-4	High Purity	3140
Palladium (Pd)	0.9-1.1 ppm	Palladium	7440-05-3	High Purity	3138

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
RICPMS31-100N	100 mL natural LDPE	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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