

Product Specification

GFAA Instrument Calibration Standard 1 (CLP)

Lot Number: SAMPLE

Product Number: RGINSCL1

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 $\pm 1\%$ 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 liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Antimony (Sb)	99-101 ppm	Antimony Trioxide	1309-64-4	High Purity	3102
Selenium (Se)	99-101 ppm	Selenium	7782-49-2	High Purity	3149
Arsenic (As)	49.5-50.5 ppm	Arsenic	7440-38-2	High Purity	3103
Thallium (Tl)	49.5-50.5 ppm	Thallium	7440-28-0	High Purity	3158
Lead (Pb)	49.5-50.5 ppm	Lead	7439-92-1	High Purity	3128
Cadmium (Cd)	9.9-10.1 ppm	Cadmium	7440-43-9	High Purity	3108

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)
RGINSCL1-50	50 mL natural 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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