

Certificate of Analysis

EPA Method 6020A
Internal Standard Solution

Catalog Number: ICM-637
Lot Number: CP-0674
Lot Issue Date: 02/15/2016
Expiration Date: 03/31/2020

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO Guide 34 / ISO 17025 accredited laboratory, and compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

Analyte	True Value			Analytical Method		NIST SRM
bismuth	10.0	±	0.1	µg/mL	ICP / ICP-MS	3106
germanium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3120a
holmium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3123a
indium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3124a
lithium (VI)	10.0	±	0.1	µg/mL	ICP / ICP-MS	second source
rhodium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3144
scandium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3148a
terbium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3157a
yttrium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3167a

Matrix: 5% nitric acid, trace hydrochloric acid, trace hydrofluoric acid in low TOC water (< 50 ppb)

ULTRA uses purified acids, 18 megaohm double deionized water, calibrated Class A glassware, and meticulously cleaned bottles in the manufacturing of ULTRA grade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.