



Certificate of Analysis

ICP/MS Verification Standard

Catalog Number: IMS-100

Lot Number: CM-3642

Lot Issue Date: 07/08/2015

Expiration Date: 08/31/2019

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
beryllium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3105a
bismuth	10.0	±	0.1	µg/mL	ICP / ICP-MS	3106
cerium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3110
cobalt	10.0	±	0.1	µg/mL	ICP / ICP-MS	3113
indium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3124a
lead	10.0	±	0.1	µg/mL	ICP / ICP-MS	3128
magnesium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3131a
nickel	10.0	±	0.1	µg/mL	ICP / ICP-MS	3136
uranium	10.0	±	0.1	µg/mL	ICP / ICP-MS	second source

Matrix: 2% nitric acid in low TOC water (< 50 ppb)

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade 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



ISO 9001 Registered Quality System – TUV USA



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