

Certificate of Analysis

ICP Calibration Standard
Catalog Number: ICM-105
Lot Number: CL-5321
Lot Issue Date: 12/23/2014
Expiration Date: 01/31/2018

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	
arsenic	100.1	±	0.5	µg/mL	ICP / ICP-MS	3103a
beryllium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3105a
cadmium	100.1	±	0.5	µg/mL	ICP / ICP-MS	3108
chromium (VI)	100.2	±	0.5	µg/mL	ICP / ICP-MS	3112a
lead	100.2	±	0.5	µg/mL	ICP / ICP-MS	3128
* mercury	100.1	±	0.5	µg/mL	ICP / ICP-MS	3133
nickel	100.2	±	0.5	µg/mL	ICP / ICP-MS	3136
selenium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3149
thallium	100.0	±	0.5	µg/mL	ICP / ICP-MS	3158

Matrix: 5% nitric acid in low TOC water (< 50 ppb)

** Light Sensitive*

ULTRA uses purified acids, 18 megaohm double deionized water, calibrated Class A glassware, and 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/NCCL Z-540-1 and ISO 9001.



ISO 17025:2005
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ISO 9001:2000
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