

Certificate of Analysis

ICP Calibration Standard
Catalog Number: ICM-105
Lot Number: CP-2209
Lot Issue Date: 05/05/2016
Expiration Date: 06/30/2019

This Reference Material (RM) 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	100.2	±	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	100.1	±	0.5	µg/mL	ICP / ICP-MS	3149
thallium	100.2	±	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.