

Certificate of Analysis

Custom Standard**Catalog Number: ICUS-4294****Lot Number: CM-3765****Lot Issue Date: 07/13/2015****Expiration Date: 08/31/2017**

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	100.2	±	0.5	µg/mL	ICP / ICP-MS	3103a
thallium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3158
cadmium	50.1	±	0.3	µg/mL	ICP / ICP-MS	3108
lead	50.1	±	0.3	µg/mL	ICP / ICP-MS	3128
selenium	50.1	±	0.3	µg/mL	ICP / ICP-MS	3149

Matrix: 5% nitric 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.