

Certificate of Analysis

EPA Method 200.7 Calibration Standard #4**Catalog Number: ICM-205****Lot Number: CM-4767****Lot Issue Date: 09/10/2015****Expiration Date: 10/31/2018**

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
aluminum	1001	±	5	µg/mL	ICP / ICP-MS	3101a
calcium	1001	±	5	µg/mL	ICP / ICP-MS	3109a
chromium	500.5	±	2.5	µg/mL	ICP / ICP-MS	3112a
magnesium	1002	±	5	µg/mL	ICP / ICP-MS	3131a
nickel	500.8	±	2.5	µg/mL	ICP / ICP-MS	3136
potassium	1001	±	5	µg/mL	ICP / ICP-MS	3141a
* silver	500.4	±	2.5	µg/mL	ICP / ICP-MS	3151
sodium	1002	±	5	µg/mL	ICP / ICP-MS	3152a
zinc	500.8	±	2.5	µg/mL	ICP / ICP-MS	3168a

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 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.