

Certificate of Analysis

EPA Method 200.7 Mixed Calibration Std #4**Catalog Number: ICM-234****Lot Number: R01150****Lot Issue Date: 10/30/2013****Expiration Date: 11/30/2017**

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. 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	100.0	±	0.5	µg/mL	ICP / ICP-MS	3101a
chromium	50.0	±	0.3	µg/mL	ICP / ICP-MS	3112a
silicon	100.0	±	0.5	µg/mL	ICP / ICP-MS	3150
tin	40.0	±	0.2	µg/mL	ICP / ICP-MS	3161a
zinc	50.0	±	0.3	µg/mL	ICP / ICP-MS	3168a

Matrix: 2% nitric acid, with trace hydrofluoric 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 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.