

Certificate of Analysis

Custom Standard**Catalog Number: ICUS-1416-480ML****Lot Number: CM-5690****Lot Issue Date: 10/29/2015****Expiration Date: 11/30/2016**

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
phosphorus	4.00	±	0.02 µg/mL	ICP / ICP-MS	3139a
zinc	100.2	±	0.5 µg/mL	ICP / ICP-MS	3168a

Matrix: 0.03% hydrochloric acid, trace 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.