

# Certificate of Analysis

**IC Cations Mixture #2**

**Catalog Number: ICC-310**

**Lot Number: CM-5471**

**Lot Issue Date: 10/20/2015**

**Expiration Date: 11/30/2019**

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	
ammonium	100.2	±	0.5	µg/mL	IC	n/a
lithium	10.0	±	0.1	µg/mL	IC	3129a
potassium	50.1	±	0.3	µg/mL	IC	3141a
sodium	100.2	±	0.5	µg/mL	IC	3152a

**Matrix:** 0.2% nitric acid (trace) 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/NCCL Z-540-1 and ISO 9001.