

Certificate of Analysis

IC Cations Mixture #1

Catalog Number: ICC-300

Lot Number: CP-0231

Lot Issue Date: 01/20/2016

Expiration Date: 02/29/2020

This Reference Material (RM) 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	400.8	±	2.0 µg/mL	IC	n/a
calcium	1000	±	5.0 µg/mL	IC	3109a
lithium	50.1	±	0.3 µg/mL	IC	3129a
magnesium	200.3	±	1.0 µg/mL	IC	3131a
potassium	200.2	±	1.0 µg/mL	IC	3141a
sodium	200.4	±	1.0 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.