

Certificate of Analysis

IC Cations Mixture

Catalog Number: ICC-330

Lot Number: CM-3070

Lot Issue Date: 07/04/2015

Expiration Date: 07/31/2019

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	100.1	±	0.5	µg/mL	IC	second source CRM
barium	100.1	±	0.5	µg/mL	IC	3104a
calcium	100.4	±	0.5	µg/mL	IC	3109a
lithium	100.0	±	0.5	µg/mL	IC	3129a
magnesium	100.2	±	0.5	µg/mL	IC	3131a
manganese	100.2	±	0.5	µg/mL	IC	3132
potassium	100.0	±	0.5	µg/mL	IC	3141a
sodium	100.4	±	0.5	µg/mL	IC	3152a
strontium	100.2	±	0.5	µg/mL	IC	3153a

Matrix: 0.2% nitric acid in low TOC water (< 50 ppb)

ULTRA uses purified acids, 18 megaohm double deionized water, calibrated Class A glassware, and meticulously clean 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/NCSL Z-540-1 and ISO 9001.