

Certificate of Analysis

IC Cations Mixture #3

Catalog Number: ICC-320

Lot Number: M01170A

Lot Issue Date: 01/29/2015

Expiration Date: 02/28/2018

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within $\pm 5.0\%$, when 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
barium	1600	\pm	8	$\mu\text{g/mL}$	ICP / ICP-MS 3104a
calcium	400.0	\pm	2.0	$\mu\text{g/mL}$	ICP / ICP-MS 3109a
magnesium	200.0	\pm	1.0	$\mu\text{g/mL}$	ICP / ICP-MS 3131a
strontium	600.0	\pm	3.0	$\mu\text{g/mL}$	ICP / ICP-MS 3153a

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

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & 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/NCSL Z-540-1 and ISO 9001



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A2LA
Cert. No. 0851.01

ISO 9001:2000
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