Certificate of Analysis

IC Cations Mixture

Catalog Number: ICC-330
Lot Number: M00849
Job Number: J00013518
Lot Issue Date: 08/10/2011
Expiration Date: 09/30/2015

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 ± 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
ammonium	100.0	±	0.5	µg/mL	IC	second source
barium	100.0	±	0.5	µg/mL	ICP / ICP-MS	3104a
calcium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3109a
lithium	100.1	±	0.5	µg/mL	ICP / ICP-MS	3129a
magnesium	100.0	±	0.5	µg/mL	ICP / ICP-MS	3131a
manganese	100.1	±	0.5	µg/mL	ICP / ICP-MS	3132
potassium	100.0	±	0.5	µg/mL	ICP / ICP-MS	3141a
sodium	100.1	±	0.5	µg/mL	ICP / ICP-MS	3152a
strontium	100.1	±	0.5	µg/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.

ACCREDITED

ISO 17025:2005
Accredited
A2LA
Cert. No. 0851.01

ISO 9001:2000
Registered
TUV USA, Inc.
Cert. No. 06-1004

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