

Certificate of Analysis

EPA Method 200.7
LPC Solution A
Catalog Number: ICM-240A
Lot Number: T00670
Lot Issue Date: 06/04/2014
Expiration Date: 07/31/2018

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
aluminum	200.0	±	1.0	µg/mL	ICP / ICP-MS	3101a
arsenic	200.0	±	1.0	µg/mL	ICP / ICP-MS	3103a
barium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3104a
beryllium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3105a
boron	200.0	±	1.0	µg/mL	ICP / ICP-MS	3107
cadmium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3108
calcium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3109a
cerium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3110
chromium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3112a
cobalt	200.0	±	1.0	µg/mL	ICP / ICP-MS	3113
copper	200.0	±	1.0	µg/mL	ICP / ICP-MS	3114
iron	200.0	±	1.0	µg/mL	ICP / ICP-MS	3126a
lead	200.0	±	1.0	µg/mL	ICP / ICP-MS	3128
lithium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3129a
magnesium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3131a
manganese	200.0	±	1.0	µg/mL	ICP / ICP-MS	3132
* mercury	200.0	±	1.0	µg/mL	ICP / ICP-MS	3133
nickel	200.0	±	1.0	µg/mL	ICP / ICP-MS	3136
phosphorus	1000	±	5	µg/mL	ICP / ICP-MS	3139a
potassium	1000	±	5	µg/mL	ICP / ICP-MS	3141a
selenium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3149

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William J. Leary
Quality Assurance Manager

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Analyte	True Value				Analytical Method	NIST SRM
* silver	25.00	±	0.13	µg/mL	ICP / ICP-MS	3151
sodium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3152a
strontium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3153a
thallium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3158
* vanadium	200.0	±	1.0	µg/mL	ICP / ICP-MS	3165
zinc	200.0	±	1.0	µg/mL	ICP / ICP-MS	3168a

Matrix: 5% nitric acid in low TOC water (< 50 ppb)

** light sensitive*

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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