Certificate of Analysis

EPA Method 200.7
LPC Solution C (concentrated)

Catalog Number:	**ICM-240C**
Lot Number:	**CP-2519**
Lot Issue Date:	**05/23/2016**
Expiration Date:	**06/30/2017**

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
aluminum	200.3	±	1.0	µg/mL	ICP / ICP-MS	3101a
arsenic	200.2	±	1.0	µg/mL	ICP / ICP-MS	3103a
barium	200.3	±	1.0	µg/mL	ICP / ICP-MS	3104a
beryllium	200.4	±	1.0	µg/mL	ICP / ICP-MS	3105a
boron	200.7	±	1.0	µg/mL	ICP / ICP-MS	3107
cadmium	200.1	±	1.0	µg/mL	ICP / ICP-MS	3108
calcium	200.3	±	1.0	µg/mL	ICP / ICP-MS	3109a
chromium	200.2	±	1.0	µg/mL	ICP / ICP-MS	3112a
cobalt	200.3	±	1.0	µg/mL	ICP / ICP-MS	3113
copper	200.3	±	1.0	µg/mL	ICP / ICP-MS	3114
iron	200.2	±	1.0	µg/mL	ICP / ICP-MS	3126a
lead	200.2	±	1.0	µg/mL	ICP / ICP-MS	3128
lithium	200.2	±	1.0	µg/mL	ICP / ICP-MS	3129a
magnesium	200.3	±	1.0	µg/mL	ICP / ICP-MS	3131a
manganese	200.1	±	1.0	µg/mL	ICP / ICP-MS	3132
nickel	200.2	±	1.0	µg/mL	ICP / ICP-MS	3136
phosphorus	1002	±	5	µg/mL	ICP / ICP-MS	3139a
potassium	1001	±	5	µg/mL	ICP / ICP-MS	3141a
selenium	200.1	±	1.0	µg/mL	ICP / ICP-MS	3149
* silver	25.0	±	0.1	µg/mL	ICP / ICP-MS	3151
sodium	200.3	±	1.0	µg/mL	ICP / ICP-MS	3152a
strontium	200.2	±	1.0	µg/mL	ICP / ICP-MS	3153a
thallium	200.3	±	1.0	µg/mL	ICP / ICP-MS	3158
* vanadium	200.2	±	1.0	µg/mL	ICP / ICP-MS	3165
zinc	200.3	±	1.0	µg/mL	ICP / ICP-MS	3168a

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

** light sensitive*

ULTRA uses purified acids, 18 megaohm double deionized water, calibrated Class A glassware, and meticulously cleaned bottles in the manufacturing of ULTRAgrade strandards. 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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ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001 Registered Quality System – TUV USA