Certificate of Analysis

EPA Method 200.8
Standard Solution A

Catalog Number: ICM-801
Lot Number: P00883
Job Number: J00015144
Lot Issue Date: 08/30/2012
Expiration Date: 09/30/2016

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
aluminum	10.00	±	0.05	µg/mL	ICP / ICP-MS	3101a
antimony	10.00	±	0.05	µg/mL	ICP / ICP-MS	3102a
arsenic	10.00	±	0.05	µg/mL	ICP / ICP-MS	3103a
beryllium	10.00	±	0.05	µg/mL	ICP / ICP-MS	3105a
cadmium	10.00	±	0.05	µg/mL	ICP / ICP-MS	3108
chromium	10.00	±	0.05	µg/mL	ICP / ICP-MS	3112a
cobalt	10.00	±	0.05	µg/mL	ICP / ICP-MS	3113
copper	10.00	±	0.05	µg/mL	ICP / ICP-MS	3114
lead	10.00	±	0.05	µg/mL	ICP / ICP-MS	3128
manganese	10.00	±	0.05	µg/mL	ICP / ICP-MS	3132
molybdenum	10.00	±	0.05	µg/mL	ICP / ICP-MS	3134
nickel	10.00	±	0.05	µg/mL	ICP / ICP-MS	3136
selenium	50.00	±	0.25	µg/mL	ICP / ICP-MS	3149
thallium	10.00	±	0.05	µg/mL	ICP / ICP-MS	3158
thorium	10.00	±	0.05	µg/mL	ICP / ICP-MS	3159
uranium	10.00	±	0.05	µg/mL	ICP / ICP-MS	3164
* vanadium	10.00	±	0.05	µg/mL	ICP / ICP-MS	3165
zinc	10.00	±	0.05	µg/mL	ICP / ICP-MS	3168a

Matrix: 2% nitric acid, and trace tartaric 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.

ACCREDITED

ISO 17025:2005
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ISO 9001:2000
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TUV USA, Inc.
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