



Certificate of Analysis

EPA Method 200.8
Standard Solution A

Catalog Number: ICM-801
Lot Number: CR-0247
Lot Issue Date: 01/24/2017
Expiration Date: 02/28/2021

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.

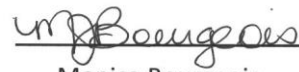
Analyte	True Value				Analytical Method	NIST SRM
aluminum	10.0	±	0.1	µg/mL	ICP / ICP-MS	3101a
antimony	10.0	±	0.1	µg/mL	ICP / ICP-MS	3102a
arsenic	10.0	±	0.1	µg/mL	ICP / ICP-MS	3103a
beryllium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3105a
cadmium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3108
chromium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3112a
cobalt	10.0	±	0.1	µg/mL	ICP / ICP-MS	3113
copper	10.0	±	0.1	µg/mL	ICP / ICP-MS	3114
lead	10.0	±	0.1	µg/mL	ICP / ICP-MS	3128
manganese	10.0	±	0.1	µg/mL	ICP / ICP-MS	3132
molybdenum	10.0	±	0.1	µg/mL	ICP / ICP-MS	3134
nickel	10.0	±	0.1	µg/mL	ICP / ICP-MS	3136
selenium	50.0	±	0.3	µg/mL	ICP / ICP-MS	3149
thallium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3158
thorium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3159
uranium	10.0	±	0.1	µg/mL	ICP / ICP-MS	second source
* vanadium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3165
zinc	10.0	±	0.1	µg/mL	ICP / ICP-MS	3168a

Matrix: 2% nitric acid, trace hydrofluoric acid, trace tartaric 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 ULTRA grade 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.


John Russo
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Monica Bourgeois
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ISO 9001 Registered Quality System – TUV USA