Certificate of Analysis

EPA Method 200.7
Spiking Standard #3

Catalog Number: ICM-213
Lot Number: CS-1702
Lot Issue Date: 04/06/2018
Expiration Date: 05/31/2022

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	2001	±	10	µg/mL	ICP / ICP-OES	3101
barium	2003	±	10	µg/mL	ICP / ICP-OES	3104
beryllium	50.0	±	0.3	µg/mL	ICP / ICP-OES	3105
chromium	200.1	±	1.0	µg/mL	ICP / ICP-OES	3112
cobalt	500.7	±	2.5	µg/mL	ICP / ICP-OES	3113
copper	250.3	±	1.3	µg/mL	ICP / ICP-OES	3114
iron	1002	±	5.0	µg/mL	ICP / ICP-OES	3126
manganese	500.7	±	2.5	µg/mL	ICP / ICP-OES	3132
nickel	500.8	±	2.5	µg/mL	ICP / ICP-OES	3136
* silver	50.1	±	0.3	µg/mL	ICP / ICP-OES	3151
* vanadium	500.7	±	2.5	µg/mL	ICP / ICP-OES	3165
zinc	500.8	±	2.5	µg/mL	ICP / ICP-OES	3168

Matrix: 2% nitric acid and 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

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER

ISO 9001 Registered Quality System – TUV USA