



Certificate of Analysis

EPA Method 200.7
Interference Check Standard #3

Catalog Number: ICM-223
Lot Number: T00082A
Lot Issue Date: 06/09/2017
Expiration Date: 07/31/2020

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.

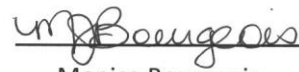
Analyte	True Value				Analytical	NIST
arsenic	1000	±	5.0	µg/mL	ICP / ICP-MS	3103a
barium	300.0	±	1.5	µg/mL	ICP / ICP-MS	3104a
beryllium	100.0	±	0.5	µg/mL	ICP / ICP-MS	3105a
cadmium	300.0	±	1.5	µg/mL	ICP / ICP-MS	3108
chromium	300.0	±	1.5	µg/mL	ICP / ICP-MS	3112a
cobalt	300.0	±	1.5	µg/mL	ICP / ICP-MS	3113
copper	300.0	±	1.5	µg/mL	ICP / ICP-MS	3114
lead	1000	±	5	µg/mL	ICP / ICP-MS	3128
manganese	200.0	±	1.0	µg/mL	ICP / ICP-MS	3132
nickel	300.0	±	1.5	µg/mL	ICP / ICP-MS	3136
potassium	20000	±	100	µg/mL	ICP / ICP-MS	3141a
selenium	500.0	±	2.5	µg/mL	ICP / ICP-MS	3149
* silver	300.0	±	1.5	µg/mL	ICP / ICP-MS	3151
thallium	1000	±	5	µg/mL	ICP / ICP-MS	3158
* vanadium	300.0	±	1.5	µg/mL	ICP / ICP-MS	3165
zinc	300.0	±	1.5	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 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.


John Russo
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ISO 9001 Registered Quality System – TUV USA