

Certificate of Analysis

Custom Standard
Catalog Number: ICUS-2327
Lot Number: CP-5126
Lot Issue Date: 10/07/2016
Expiration Date: 11/30/2018

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.

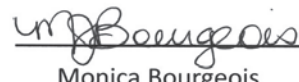
Analyte	True Value			Analytical Method		NIST SRM
antimony	10.0	±	0.1	µg/mL	ICP / ICP-MS	3102a
arsenic	10.0	±	0.1	µg/mL	ICP / ICP-MS	3103a
beryllium	1.00	±	0.01	µg/mL	ICP / ICP-MS	3105a
cadmium	1.00	±	0.01	µg/mL	ICP / ICP-MS	3108
cobalt	10.0	±	0.1	µg/mL	ICP / ICP-MS	3113
chromium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3112a
copper	10.0	±	0.1	µg/mL	ICP / ICP-MS	3114
lead	10.0	±	0.1	µg/mL	ICP / ICP-MS	3128
nickel	10.0	±	0.1	µg/mL	ICP / ICP-MS	3136
selenium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3149
* silver	1.00	±	0.01	µg/mL	ICP / ICP-MS	3151
thallium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3158
tin	10.0	±	0.1	µg/mL	ICP / ICP-MS	3161a

Matrix: 5% nitric acid with trace hydrofluoric and tartaric acids 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 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
 President


 Monica Bourgeois
 Director of QA/RA