



Certificate of Analysis

Inorganic Quality Control Standard #2

Catalog Number: IQC-019

Lot Number: CM-6137

Lot Issue Date: 12/07/2015

Expiration Date: 01/31/2020

This ISO Guide 34 Reference Material 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 true value for each analyte is determined gravimetrically.

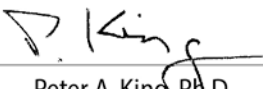
Analyte	True Value				Analytical Method	NIST SRM
antimony	100.0	±	0.5	µg/mL	ICP / ICP-MS	3102a
arsenic	100.2	±	0.5	µg/mL	ICP / ICP-MS	3103a
beryllium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3105a
cadmium	100.1	±	0.5	µg/mL	ICP / ICP-MS	3108
calcium	100.1	±	0.5	µg/mL	ICP / ICP-MS	3109a
chromium	100.1	±	0.5	µg/mL	ICP / ICP-MS	3112a
cobalt	100.2	±	0.5	µg/mL	ICP / ICP-MS	3113
copper	100.1	±	0.5	µg/mL	ICP / ICP-MS	3114
iron	100.3	±	0.5	µg/mL	ICP / ICP-MS	3126a
lead	100.2	±	0.5	µg/mL	ICP / ICP-MS	3128
magnesium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3131a
manganese	100.0	±	0.5	µg/mL	ICP / ICP-MS	3132
molybdenum	100.2	±	0.5	µg/mL	ICP / ICP-MS	3134
nickel	100.2	±	0.5	µg/mL	ICP / ICP-MS	3136
selenium	100.1	±	0.5	µg/mL	ICP / ICP-MS	3149
thallium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3158
titanium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3162a
* vanadium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3165
zinc	100.2	±	0.5	µg/mL	ICP / ICP-MS	3168a

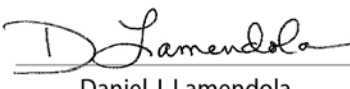
Matrix: 5% nitric acid, trace hydrofluoric acid, trace tartaric acid in low TOC water (< 50 ppb)

* *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/NCCL Z-540-1 and ISO 9001.




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ISO 9001 Registered Quality System – TUV USA