

Certificate of Analysis

Inorganic Quality Control Standard #1

Catalog Number: IQC-007

Lot Number: CP-4523

Lot Issue Date: 09/02/2016

Expiration Date: 10/31/2020

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
					Method	SRM
aluminum	100.1	±	0.5	µg/mL	ICP / ICP-MS	3101a
barium	100.1	±	0.5	µg/mL	ICP / ICP-MS	3104a
boron	100.4	±	0.5	µg/mL	ICP / ICP-MS	3107
potassium	1001	±	5	µg/mL	ICP / ICP-MS	3141a
silicon	50.1	±	0.3	µg/mL	ICP / ICP-MS	3150
* silver	100.0	±	0.5	µg/mL	ICP / ICP-MS	3151
sodium	100.2	±	0.5	µg/mL	ICP / ICP-MS	3152a

Matrix: 5% nitric acid and 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