

Certificate of Analysis

CLP ICP Interference Check Standard #1

Catalog Number: ICM-441

Lot Number: M00570

Job Number: J00013209

Lot Issue Date: 06/02/2011

Expiration Date: 07/31/2015

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within $\pm 5.0\%$, when 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
	Value	Uncertainty	Units		
aluminum	5006	± 25	$\mu\text{g/mL}$	ICP / ICP-MS	3101a
calcium	5004	± 25	$\mu\text{g/mL}$	ICP / ICP-MS	3109a
iron	2003	± 10	$\mu\text{g/mL}$	ICP / ICP-MS	3126a
magnesium	5003	± 25	$\mu\text{g/mL}$	ICP / ICP-MS	3131a

Matrix: 5% nitric acid in low TOC water (< 50 ppb)

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.



ISO 17025:2005
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Cert. No. 0851.01

ISO 9001:2000
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