

Certificate of Analysis

CLP ICP Interference Check Standard #1

Catalog Number: ICM-441

Lot Number: CP-2217

Lot Issue Date: 05/09/2016

Expiration Date: 06/30/2019

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
aluminum	5010	±	25	µg/mL	ICP / ICP-MS	3101a
calcium	5002	±	25	µg/mL	ICP / ICP-MS	3109a
iron	2001	±	10	µg/mL	ICP / ICP-MS	3126a
magnesium	5010	±	25	µg/mL	ICP / ICP-MS	3131a

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

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/NCSL Z-540-1 and ISO 9001.