

# Certificate of Analysis

## Custom Standard

**Catalog Number: ICUS-3271**

**Lot Number: CP-4699**

**Lot Issue Date: 09/14/2016**

**Expiration Date: 10/31/2018**

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	
fluoride	1002	±	5	µg/mL	IC	second source
chloride	1001	±	5	µg/mL	IC	3182
nitrate (as N)	1002	±	5	µg/mL	IC	3185
bromide	1002	±	5	µg/mL	IC	3184
sulfate	1002	±	5	µg/mL	IC	3181

**Matrix:** 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 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.