

# Certificate of Analysis

**ULTRAgrade™ Ion Chromatography Solution:** 1000 µg/mL Acetate in low TOC water (< 50 ppb)  
**Catalog Number:** ICC-014  
**Lot Number:** K00886  
**Job Number:** J00010195  
**Lot Issue Date:** 08/28/2009  
**Expiration Date:** 09/30/2013

Starting Material: Sodium Acetate (trihydrate)  
Starting Material Purity: 99%  
Starting Material Lot No.: NT04625  
Matrix: low TOC water (< 50 ppb)

**Certified Value:** 1002 ± 2 µg/mL

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 ± 2.5%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

**Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3152a**

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.