

Certificate of Analysis

ULTRAgrade™ Ion Chromatography Solution: 1000 µg/mL Acetate in low TOC water (< 50 ppb)

Catalog Number: ICC-014

Lot Number: M00371

Job Number: J00012857

Lot Issue Date: 04/11/2011

Expiration Date: 05/31/2015

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 at the 95% confidence level for each analyte is determined gravimetrically.

Confirmation by Ion Chromatography (IC) vs. Second Source (CRM)

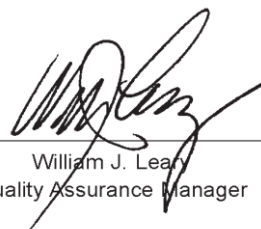
Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3152a

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/NCCL Z-540-1 and ISO 9001.



ISO 17025:2005
Accredited
A2LA
Cert. No. 0851.01

ISO 9001:2000
Registered
TUV USA, Inc.
Cert. No. 06-1004


William J. Leary
Quality Assurance Manager