

Certificate of Analysis

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

Catalog Number: ICC-032

Lot Number: M00377

Job Number: J00012859

Lot Issue Date: 04/12/2011

Expiration Date: 05/31/2015

Starting Material: Sodium Thiosulfate

Starting Material Purity: 99.9%

Starting Material Lot No.: NT04777

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 Ion Conductivity (IC) vs. Second Source (CRM)

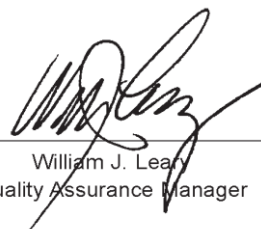
Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3152a

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
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