

Certificate of Analysis

ULTRAgrade™ Ion Chromatography Solution: 1000 µg/mL Cyanide in dilute sodium hydroxide
Catalog Number: ICC-008
Lot Number: CM-1982
Lot Issue Date: 04/21/2015
Expiration Date: 05/31/2016

Starting Material: potassium cyanide
Starting Material Purity: 99.79%
Starting Material Lot No.: RM07031
Matrix: 0.5% sodium hydroxide in low TOC water (< 50 ppb)

Certified Value: 1001 ± 2 µg/mL

This Certified Reference Material (CRM) 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.

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

Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3141a

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.