



# Certificate of Analysis

**Copper**  
**AA Standard**

**Catalog Number:** IAA-229  
**Lot Number:** K00275  
**Job Number:** J00009415  
**Lot Issue Date:** 03/24/2009  
**Expiration Date:** 04/30/2016

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001:2000 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below

| Analyte | True Value |   |   | Analytical Method | NIST SRM          |
|---------|------------|---|---|-------------------|-------------------|
|         |            |   |   |                   |                   |
| copper  | 1001       | ± | 5 | µg/mL             | ICP / ICP-MS 3114 |

Matrix: 2% nitric acid in low TOC water (< 50 ppb)

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



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