

Certificate of Analysis

**Zirconium
AA Standard**

**Catalog Number: IAA-040
Lot Number: L00895
Job Number: J00011837
Lot Issue Date: 08/02/2010
Expiration Date: 09/30/2017**

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 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 |
|----------------|-------------------|--------------------------|-----------------|
| zirconium | 10005 ± 50 µg/mL | ICP / ICP-MS | 3169 |

Matrix: 5% 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. Leahy
Quality Assurance Manager