

# Certificate of Analysis

**Titanium  
AA Standard**

**Catalog Number: IAA-022  
Lot Number: H00568A  
Job Number: J00007186  
Lot Issue Date: 08/25/2009  
Expiration Date: 09/30/2016**

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  $\pm 2.5\%$ , when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

<b>Analyte</b>	<b>True Value</b>	<b>Analytical Method</b>	<b>NIST SRM</b>
titanium	10011 $\pm$ 50 $\mu\text{g/mL}$	ICP / ICP-MS	3162a

Matrix: 2% nitric acid, and trace hydrofluoric 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/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



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