

# Certificate of Analysis

**Tin**  
**AA Standard**

**Catalog Number: IAA-050**  
**Lot Number: K00799**  
**Job Number: J00010213**  
**Lot Issue Date: 08/06/2009**  
**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.

Analyte	True Value	Analytical Method	NIST SRM
tin	10003 $\pm$ 50 $\mu\text{g/mL}$	ICP / ICP-MS	3161a

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 and cleaned bottles in the manufacture of ULTRAgrade standards. Balances used in the manufacture 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.  
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