Certificate of Analysis

Thallium
AA Standard

Catalog Number: IAA-281
Lot Number: N081389
Lot Issue Date: 08/07/2015
Expiration Date: 09/30/2022

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 ± 2.5%, when 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.

Analyte	True Value				Analytical Method	NIST SRM
thallium	1001	±	5	µg/mL	ICP / ICP-MS	3158

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.

-Density of Solution (measured at 20.00°C ± 0.05°C): 1.0096 g/mL

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

William J. Leary
Quality Assurance Manager

ISO 9001 Registered Quality System – TUV USA