



Certificate of Analysis

Tungsten
AA Standard

Catalog Number: IAA-274
Lot Number: J00996
Job Number: J00008686
Lot Issue Date: 10/15/2008
Expiration Date: 11/30/2015

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
tungsten	1000	$\pm$	3	$\mu\text{g/mL}$	ICP / ICP-MS	3163

Matrix: trace ammonium hydroxide (0.5%) 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



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Accredited
A2LA
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