

Certificate of Analysis

**ICP-MS Tuning Solution
Low Concentration**

Catalog Number: CICM-697

Lot Number: CL-5276

Lot Issue Date: 12/22/2014

Expiration Date: 01/31/2017

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO Guide 34 / ISO 17025 accredited laboratory, and 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
lithium	10.0	±	0.1	µg/L	ICP / ICP-MS	3129a
yttrium	10.0	±	0.1	µg/L	ICP / ICP-MS	3167a
cerium	10.0	±	0.1	µg/L	ICP / ICP-MS	3110
thallium	10.0	±	0.1	µg/L	ICP / ICP-MS	3158
cobalt	10.0	±	0.1	µg/L	ICP / ICP-MS	3113

Matrix: 2% nitric acid in low TOC water (< 50 ppb)

ULTRA uses purified acids, 18 megaohm double deionized water, calibrated Class A glassware, and 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
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A2LA
Cert. No. 0851.01

ISO 9001:2000
Registered
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