



# Certificate of Analysis

**ICP-MS Tuning Solution**  
**Low Concentration**

**Catalog Number: CICM-697**  
**Lot Number: CL-5276A**  
**Lot Issue Date: 05/20/2016**  
**Expiration Date: 06/30/2018**

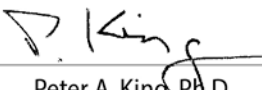
This Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO Guide 34 / ISO 17025 accredited laboratory, and compared to calibration standards independently prepared using NIST 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/NCCL Z-540-1 and ISO 9001.



  
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ISO 9001 Registered Quality System – TUV USA