

Certificate of Analysis

EPA Method 6020A
Tuning Standard

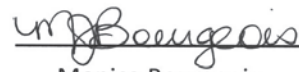
Catalog Number: ICM-638
Lot Number: CM-1267
Lot Issue Date: 03/23/2015
Expiration Date: 04/30/2019

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
cobalt	10.0	±	0.1	µg/mL	ICP / ICP-MS	3113
indium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3124a
lithium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3129a
thallium	10.0	±	0.1	µg/mL	ICP / ICP-MS	3158

Matrix: 5% 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 ULTRA grade 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.


John Russo
President
Monica Bourgeois
Director of QA/RA