



Certificate of Analysis

ICP/MS Tuning Solution

Catalog Number: IMS-110

Lot Number: G00362Z

Job Number: J00005756

Lot Issue Date: 06/27/2011

Expiration Date: 07/31/2015

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 $\pm 5.0\%$, 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
beryllium	10.00	\pm	0.05 $\mu\text{g/mL}$	ICP / ICP-MS	3105a
cobalt	10.00	\pm	0.05 $\mu\text{g/mL}$	ICP / ICP-MS	3113
indium	10.00	\pm	0.05 $\mu\text{g/mL}$	ICP / ICP-MS	3124a
lead	10.00	\pm	0.05 $\mu\text{g/mL}$	ICP / ICP-MS	3128
magnesium	10.00	\pm	0.05 $\mu\text{g/mL}$	ICP / ICP-MS	3131a

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



ISO 9001 Registered Quality System – TUV USA


William J. Leary
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