

# Certificate of Analysis

## ICP-MS Tuning Solution

**Catalog Number: IMS-110**

**Lot Number: CS-0030**

**Lot Issue Date: 01/11/2018**

**Expiration Date: 02/28/2021**

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
beryllium	10.0	±	0.1 µg/mL	ICP / ICP-MS	3105
cobalt	10.0	±	0.1 µg/mL	ICP / ICP-MS	3113
indium	10.0	±	0.1 µg/mL	ICP / ICP-MS	3124
lead	10.0	±	0.1 µg/mL	ICP / ICP-MS	3128
magnesium	10.0	±	0.1 µg/mL	ICP / ICP-MS	3131

**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.



  
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ISO 9001 Registered Quality System – TUV USA