

Certificate of Analysis

EPA Method 200.8
Internal Standard Solution

Catalog Number: ICM-810
Lot Number: T00256
Job Number: J00017822
Lot Issue Date: 03/11/2014
Expiration Date: 04/30/2018

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
scandium	100.00	±	0.50 µg/mL	ICP / ICP-MS	3148a
yttrium	100.00	±	0.50 µg/mL	ICP / ICP-MS	3167a
indium	100.00	±	0.50 µg/mL	ICP / ICP-MS	3124a
terbium	100.00	±	0.50 µg/mL	ICP / ICP-MS	3157a
bismuth	100.00	±	0.50 µg/mL	ICP / ICP-MS	3106

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.