

Certificate of Analysis

**Gadolinium
AA Standard**

**Catalog Number: IAA-064
Lot Number: H00133A
Job Number: J00006654
Lot Issue Date: 04/21/2009
Expiration Date: 06/30/2016**

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 $\pm 2.5\%$, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

Analyte	True Value	Analytical Method	NIST SRM
gadolinium	10000 \pm 50 $\mu\text{g/mL}$	ICP / ICP-MS	3118a

Matrix: 1% 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/NCCL Z-540-1 and ISO 9001



ISO 17025:2005
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A2LA
Cert. No. 0851.01

ISO 9001:2000
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