

# Certificate of Analysis

**Palladium Matrix Modifier**

**Catalog Number: IMM-002**

**Lot Number: CM-2983**

**Lot Issue Date: 05/29/2015**

**Expiration Date: 06/30/2022**

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 |
|-----------|------------|---|----------|-------------------|----------|
| palladium | 5000       | ± | 25 µg/mL | ICP / ICP-MS      | 3138     |

**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 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.