



ULTRAGrade™ Solution
Platinum ICP Standard
10000 µg/mL

Catalog Number: ICP-178
Lot Number: T00305
Job Number: J00017903
Lot Issue Date: 03/21/2014
Expiration Date: 04/30/2021

Starting Material: platinum metal
 Starting Material Purity: 99.995%
 Starting Material Lot No.: BH02879
 Matrix: 10% hydrochloric acid in low TOC water (< 50 ppb)
 Atomic Weight Pt: 195.09

Certified Value: 10000 ± 20 µg/mL

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.

Classical Wet Assay Method: Theoretical, based on gravimetric measurements

Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3140

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.

Trace Metallic Impurities in Solution Standard in µg/mL:

* Al <0.100 D	* Ga <0.005 ND	n Nb	n S
* Sb <0.005 ND	n Ge	n Os	n Ta
* As <0.005 ND	n Au	* Pd <0.200 D	n Te
* Ba <0.005 ND	n Hf	* P <0.005 ND	n Tb
* Be <0.005 ND	n Ho	s Pt	* Tl <0.005 ND
* Bi <0.200 D	* In <0.005 ND	* K <0.005 ND	n Th
* B <0.005 ND	* Ir <3.500 D	n Pr	n Tm
* Cd <0.100 D	* Fe <0.005 ND	n Re	* Sn <0.005 ND
* Ca <0.005 ND	* La <0.005 ND	* Rh <0.500 ND	* Ti <0.100 D
n Ce	* Pb <0.005 ND	n Rb	n W
n Cs	* Li <0.005 ND	* Ru <0.100 ND	n U
* Cr <0.005 ND	n Lu	n Sm	* V <0.005 ND
* Co <0.005 ND	* Mg <0.005 ND	n Sc	n Yb
* Cu <0.005 ND	* Mn <0.005 ND	* Se <0.005 ND	n Y
n Dy	* Hg <0.005 ND	* Si <0.005 ND	* Zn <0.005 ND
* Er <0.005 ND	* Mo <0.005 ND	* Ag <0.150 D	n Zr
* Eu <0.005 ND	n Nd	* Na <0.005 ND	
* Gd <0.005 ND	* Ni <0.005 ND	* Sr <0.005 ND	

* - element checked for
 ND - not detected

i - spectral interference
 D - detected

n - not checked for
 s - solution standard element

Density of Solution (measured at 20.00°C ± 0.05°C): 1.0393 g/mL