

ICP Calibration Standard
Catalog Number: ICM-104
Lot Number: CS-1666
Lot Issue Date: 04/05/2018
Expiration Date: 05/31/2021

This Reference Material (RM) 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	
aluminum	500.3	±	2.5	µg/mL	ICP-MS / ICP-OES	3101
arsenic	100.1	±	0.5	µg/mL	ICP-MS / ICP-OES	3103
beryllium	100.2	±	0.5	µg/mL	ICP-MS / ICP-OES	3105
cadmium	25.0	±	0.1	µg/mL	ICP-MS / ICP-OES	3108
chromium	100.0	±	0.5	µg/mL	ICP-MS / ICP-OES	3112
cobalt	100.1	±	0.5	µg/mL	ICP-MS / ICP-OES	3113
copper	100.1	±	0.5	µg/mL	ICP-MS / ICP-OES	3114
iron	100.2	±	0.5	µg/mL	ICP-MS / ICP-OES	3126
lead	100.2	±	0.5	µg/mL	ICP-MS / ICP-OES	3128
manganese	100.1	±	0.5	µg/mL	ICP-MS / ICP-OES	3132
* mercury	5.01	±	0.03	µg/mL	ICP-MS / ICP-OES	3133
nickel	100.2	±	0.5	µg/mL	ICP-MS / ICP-OES	3136
selenium	25.0	±	0.1	µg/mL	ICP-MS / ICP-OES	3149
* vanadium	250.3	±	1.3	µg/mL	ICP-MS / ICP-OES	3165
zinc	100.2	±	0.5	µg/mL	ICP-MS / ICP-OES	3168

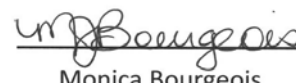
Matrix: 2% nitric acid, and trace hydrofluoric acids, in low TOC water (< 50 ppb)

* *light sensitive*

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