Certificate of Analysis

ICP Calibration Standard

Catalog Number: ICM-108
Lot Number: CT-1447
Lot Issue Date: 03/20/2019
Expiration Date: 04/30/2023

This Reference Material (RM) was manufactured and verified in accordance with Agilent'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
antimony	100.0	±	0.5	µg/mL	ICP / ICP-OES	3102a
arsenic	100.0	±	0.5	µg/mL	ICP / ICP-OES	3103a
beryllium	100.0	±	0.5	µg/mL	ICP / ICP-OES	3105a
cadmium	100.2	±	0.5	µg/mL	ICP / ICP-OES	3108
calcium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3109a
chromium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3112a
cobalt	100.1	±	0.5	µg/mL	ICP / ICP-OES	3113
copper	100.1	±	0.5	µg/mL	ICP / ICP-OES	3114
iron	100.1	±	0.5	µg/mL	ICP / ICP-OES	3126a
lead	100.1	±	0.5	µg/mL	ICP / ICP-OES	3128
lithium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3129a
magnesium	100.0	±	0.5	µg/mL	ICP / ICP-OES	3131a
manganese	100.0	±	0.5	µg/mL	ICP / ICP-OES	3132
molybdenum	100.1	±	0.5	µg/mL	ICP / ICP-OES	3134
nickel	100.2	±	0.5	µg/mL	ICP / ICP-OES	3136
selenium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3149
strontium	100.2	±	0.5	µg/mL	ICP / ICP-OES	3153a
thallium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3158
titanium	100.0	±	0.5	µg/mL	ICP / ICP-OES	3162a
* vanadium	100.0	±	0.5	µg/mL	ICP / ICP-OES	3165
zinc	100.2	±	0.5	µg/mL	ICP / ICP-OES	3168a

Matrix: 5% nitric acid, trace hydrofluoric acid, trace tartaric acid in low TOC water (< 50 ppb)

** light sensitive*

Agilent uses purified acids, 18 megaohm double deionized water, calibrated Class A glassware, and meticulously cleaned bottles in the manufacturing of these 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 Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ISO17025 Cert No.
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