Agilent

Certificate of Analysis

ICP/MS Calibration Standard #2

Catalog Number: IMS-102
Lot Number: 0006527911
Lot Issue Date: 03/31/2020
Expiration Date: 04/30/2024

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 17034 / 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	10.00	± 0.1	µg/mL	ICP / ICP-OES	3101a
arsenic	10.00	± 0.1	µg/mL	ICP / ICP-OES	3103a
barium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3104a
beryllium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3105a
bismuth	10.00	± 0.1	µg/mL	ICP / ICP-OES	3106
cadmium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3108
calcium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3109a
cesium	10.00	± 0.1	µg/mL	ICP / ICP-MS	3111a
chromium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3112a
cobalt	10.00	± 0.1	µg/mL	ICP / ICP-OES	3113
copper	10.00	± 0.1	µg/mL	ICP / ICP-OES	3114
gallium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3119a
indium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3124a
iron	10.00	± 0.1	µg/mL	ICP / ICP-OES	3126a
lead	10.00	± 0.1	µg/mL	ICP / ICP-OES	3128
lithium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3129a
magnesium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3131a
manganese	10.00	± 0.1	µg/mL	ICP / ICP-OES	3132
nickel	10.00	± 0.1	µg/mL	ICP / ICP-OES	3136
potassium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3141a
rubidium	10.00	± 0.1	µg/mL	ICP / ICP-MS	3145a
selenium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3149
* silver	10.00	± 0.1	µg/mL	ICP / ICP-OES	3151
sodium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3152a
strontium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3153a
thallium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3158
uranium	10.00	± 0.1	µg/mL	ICP / ICP-OES	second source
* vanadium	10.00	± 0.1	µg/mL	ICP / ICP-OES	3165
zinc	10.00	± 0.1	µg/mL	ICP / ICP-OES	3168a

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

** light sensitive*

Agilent uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & 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.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

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

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937