Agilent

Certificate of Analysis

ICP Calibration Standard

Catalog Number: ICM-103
Lot Number: 0006471720
Lot Issue Date: 06/20/2019
Expiration Date: 07/31/2023

This Reference Material (RM) was manufactured and verified in accordance with Agilent's 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	1002	±	5	µg/mL	ICP / ICP-OES	3101a
barium	1002	±	5	µg/mL	ICP / ICP-OES	3104a
bismuth	1000	±	5	µg/mL	ICP / ICP-OES	3106
boron	1001	±	5	µg/mL	ICP / ICP-OES	3107
cadmium	1002	±	5	µg/mL	ICP / ICP-OES	3108
calcium	1001	±	5	µg/mL	ICP / ICP-OES	3109a
chromium	1001	±	5	µg/mL	ICP / ICP-OES	3112a
cobalt	1001	±	5	µg/mL	ICP / ICP-OES	3113
copper	1001	±	5	µg/mL	ICP / ICP-OES	3114
gallium	1003	±	5	µg/mL	ICP / ICP-OES	3119a
indium	1000	±	5	µg/mL	ICP / ICP-OES	3124a
iron	1001	±	5	µg/mL	ICP / ICP-OES	3126a
lead	1002	±	5	µg/mL	ICP / ICP-OES	3128
lithium	1001	±	5	µg/mL	ICP / ICP-OES	3129a
magnesium	1002	±	5	µg/mL	ICP / ICP-OES	3131a
manganese	1002	±	5	µg/mL	ICP / ICP-OES	3132
nickel	1001	±	5	µg/mL	ICP / ICP-OES	3136
potassium	1000	±	5	µg/mL	ICP / ICP-OES	3141a
* silver	1001	±	5	µg/mL	ICP / ICP-OES	3151
sodium	1002	±	5	µg/mL	ICP / ICP-OES	3152a
strontium	1000	±	5	µg/mL	ICP / ICP-OES	3153a
thallium	1001	±	5	µg/mL	ICP / ICP-OES	3158
zinc	1002	±	5	µg/mL	ICP / ICP-OES	3168a

Matrix: 5% nitric 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.

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
ISO17025 Cert No. AT-1937