Certificate of Analysis

Combined Quality Control Standard

Catalog Number: IQC-026
Lot Number: 0006529801
Lot Issue Date: 04/06/2020
Expiration Date: 05/31/2023

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 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	100.1	±	0.5	µg/mL	ICP / ICP-OES	3101a
antimony	100.0	±	0.5	µg/mL	ICP / ICP-OES	3102a
arsenic	100.2	±	0.5	µg/mL	ICP / ICP-OES	3103a
barium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3104a
beryllium	100.0	±	0.5	µg/mL	ICP / ICP-OES	3105a
boron	100.1	±	0.5	µg/mL	ICP / ICP-OES	3107
cadmium	100.2	±	0.5	µg/mL	ICP / ICP-OES	3108
calcium	100.3	±	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
magnesium	100.0	±	0.5	µg/mL	ICP / ICP-OES	3131a
manganese	100.1	±	0.5	µg/mL	ICP / ICP-OES	3132
molybdenum	100.1	±	0.5	µg/mL	ICP / ICP-OES	3134
nickel	100.1	±	0.5	µg/mL	ICP / ICP-OES	3136
potassium	1000	±	5	µg/mL	ICP / ICP-OES	3141a
selenium	100.0	±	0.5	µg/mL	ICP / ICP-OES	3149
silicon	50.0	±	0.3	µg/mL	ICP / ICP-OES	3150
* silver	100.1	±	0.5	µg/mL	ICP / ICP-OES	3151
sodium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3152a
thallium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3158
titanium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3162a
* vanadium	100.1	±	0.5	µg/mL	ICP / ICP-OES	3165
zinc	100.1	±	0.5	µg/mL	ICP / ICP-OES	3168a

Matrix: 5% nitric acid and trace tartaric and hydrofluoric acids 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