Certificate of Analysis

CLP Graphite Furnace AA Standard #1

Catalog Number: ICM-461
Lot Number: 0006546293
Lot Issue Date: 06/29/2020
Expiration Date: 06/30/2022

This Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within ± 5.0%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value 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	50.1	±	0.25	µg/mL	ICP / ICP-OES	3103a
cadmium	10.0	±	0.05	µg/mL	ICP / ICP-OES	3108
lead	50.1	±	0.25	µg/mL	ICP / ICP-OES	3128
selenium	100.2	±	0.5	µg/mL	ICP / ICP-OES	3149
thallium	50.1	±	0.25	µg/mL	ICP / ICP-OES	3158

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

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

ISO 17034 Cert No.
AR-1936

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

ISO 17025 Cert No.
AT-1937