Certificate of Analysis

EM 200.7 LPC

Standard A

Catalog Number: ICM-240A
Lot Number: 0006485110
Lot Issue Date: 08/15/2019
Expiration Date: 09/30/2020

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	200.3	±	1.0	µg/mL	ICP / ICP-OES	3101a
arsenic	200.0	±	1.0	µg/mL	ICP / ICP-OES	3103a
barium	200.1	±	1.0	µg/mL	ICP / ICP-OES	3104a
beryllium	200.1	±	1.0	µg/mL	ICP / ICP-OES	3105a
boron	200.2	±	1.0	µg/mL	ICP / ICP-OES	3107
cadmium	200.3	±	1.0	µg/mL	ICP / ICP-OES	3108
calcium	200.2	±	1.0	µg/mL	ICP / ICP-OES	3109a
cerium	200.3	±	1.0	µg/mL	ICP / ICP-OES	3110
chromium	200.2	±	1.0	µg/mL	ICP / ICP-OES	3112a
cobalt	200.1	±	1.0	µg/mL	ICP / ICP-OES	3113
copper	200.2	±	1.0	µg/mL	ICP / ICP-OES	3114
iron	200.1	±	1.0	µg/mL	ICP / ICP-OES	3126a
lead	200.2	±	1.0	µg/mL	ICP / ICP-OES	3128
lithium	200.3	±	1.0	µg/mL	ICP / ICP-OES	3129a
magnesium	200.0	±	1.0	µg/mL	ICP / ICP-OES	3131a
manganese	200.2	±	1.0	µg/mL	ICP / ICP-OES	3132
* mercury	200.3	±	1.0	µg/mL	ICP / ICP-OES	3133
nickel	200.2	±	1.0	µg/mL	ICP / ICP-OES	3136
phosphorus	1000	±	5	µg/mL	ICP / ICP-OES	3139a
potassium	1002	±	5	µg/mL	ICP / ICP-OES	3141a
selenium	200.2	±	1.0	µg/mL	ICP / ICP-OES	3149
* silver	25.0	±	0.1	µg/mL	ICP / ICP-OES	3151
sodium	200.3	±	1.0	µg/mL	ICP / ICP-OES	3152a
strontium	200.3	±	1.0	µg/mL	ICP / ICP-OES	3153a
thallium	200.0	±	1.0	µg/mL	ICP / ICP-OES	3158
* vanadium	200.3	±	1.0	µg/mL	ICP / ICP-OES	3165
zinc	200.2	±	1.0	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