

Certificate of Analysis

Product Name: Custom Standard

Product Number: ICUS-4686

Lot Issue Date: 12-Dec-2019

Lot Number: 0006507788

Expiration Date: 31-Jan-2022

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration \pm Uncertainty
barium nitrate (ICP grade) (as barium)	010022-31-8	RM11168	1.00 \pm 0.01 $\mu\text{g/L}$
bismuth (ICP grade)	007440-69-9	RM12830	1.00 \pm 0.01 $\mu\text{g/L}$
cerium (III) nitrate (ICP grade) (as cerium)	010294-41-4	RM09055	1.00 \pm 0.01 $\mu\text{g/L}$
cobalt nitrate hexahydrate (ICP grade) (as cobalt)	010026-22-9	RM12660	1.00 \pm 0.01 $\mu\text{g/L}$
indium (ICP grade)	007440-74-6	RM09921	1.00 \pm 0.01 $\mu\text{g/L}$
lithium carbonate (ICP grade) (as lithium)	000554-13-2	RM07634	1.00 \pm 0.01 $\mu\text{g/L}$
uranium nitrate hydrate (ICP grade) (as uranium)	007440-61-1	RM12636	1.00 \pm 0.01 $\mu\text{g/L}$

Matrix: 2% nitric acid in water

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.



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Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO
9001 Quality Management System. Cert # 56 100 18560026

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ISO 17025 Cert
No. AT-1937