

Certificate of Analysis

Product Name: Custom Standard

Product Number: ICUS-2355

Lot Issue Date: 11-Dec-2019

Lot Number: 0006507494

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
copper (II) nitrate hydrate (ICP grade) (as copper)	010031-43-3	RM14621	1000 \pm 5 μ g/mL
silver nitrate (ICP grade) (as silver)	007761-88-8	RM11944	50.0 \pm 0.3 μ g/mL
iron (III) nitrate, ferric nitrate (ICP grade) (as iron)	007782-61-8	RM14491	500.9 \pm 2.5 μ g/mL
lead (II) nitrate (ICP grade) (as lead)	010099-74-8	RM10723	500.7 \pm 2.5 μ g/mL
zinc nitrate hexahydrate (ICP grade) (as zinc)	010196-18-6	RM07777	1000 \pm 5 μ g/mL
arsenic (III) oxide (ICP grade) (as arsenic)	001327-53-3	RM07873	500.1 \pm 2.5 μ g/mL
boric acid (ICP grade) (as boron)	010043-35-3	RM10535	500.3 \pm 2.5 μ g/mL
antimony (ICP grade)	007440-36-0	RM15624	500.0 \pm 2.5 μ g/mL
selenium (IV) oxide (ICP grade) (as selenium)	007446-08-4	RM10704	500.1 \pm 2.5 μ g/mL
thallium (I) nitrate (ICP grade) (as thallium)	010102-45-1	RM10594	500.5 \pm 2.5 μ g/mL

Matrix: 5% nitric acid with trace tartaric 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/NCCL 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 size required.

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Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated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

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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CSD-QA-015.1



ISO 17025 Cert
No. AT-1937