

**Reference Material Certificate**  
**Product Information Sheet**

**Product Name:** ICP-MS Verification Standard

**Lot Number:** 0006705902

**Product Number:** IMS-100

**Lot Issue Date:** 21-Sep-2022

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

**Expiration Date:** 30-Sep-2024

Component Name	CERTIFIED VALUES			CAS#	Analyte Lot
	Concentration	Expanded	Uncertainty		
beryllium acetate ( ICP grade ) ( as beryllium )	10.0	±	0.1 µg/mL	000543-81-7	RM10258
bismuth ( ICP grade )	10.0	±	0.1 µg/mL	007440-69-9	RM12830
cerium ( III ) nitrate ( ICP grade ) ( as cerium )	10.0	±	0.1 µg/mL	010294-41-4	RM09055
cobalt nitrate hexahydrate ( ICP grade ) ( as cobalt )	10.0	±	0.1 µg/mL	010026-22-9	RM10787
indium ( ICP grade )	10.0	±	0.1 µg/mL	007440-74-6	RM13348
lead ( II ) nitrate ( ICP grade ) ( as lead )	10.0	±	0.1 µg/mL	010099-74-8	RM10723
magnesium nitrate hexahydrate ( ICP grade ) ( as magnesium )	10.0	±	0.1 µg/mL	013446-18-9	RM13723
nickel ( II ) nitrate hexahydrate ( ICP grade ) ( as nickel )	10.0	±	0.1 µg/mL	013478-00-7	RM11144
uranium nitrate hydrate ( ICP grade ) ( as uranium )	10.0	±	0.1 µg/mL	007440-61-1	RM12636

**Matrix:** water with dilute nitric acid

**Description:**

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) was manufactured and verified in accordance with an 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) when available. The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

**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 analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

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Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated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

**Safety:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this analytical reference material.

**Intended Use:**

This analytical reference standard 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.

**Expiration of Certification:**

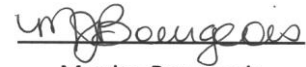
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise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

**Maintenance of Certification:**

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

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**Sample lot approver:**



Monica Bourgeois  
QMS Representative