

**Certified Reference Material Certificate**

<b>Product Name</b>	Sodium Standard - 5725 µg/mL (1L)	<b>Lot Number:</b>	0006705815
<b>Product Number</b>	ICUS-0001375	<b>Lot Issue Date:</b>	18-Oct-2022
<b>Storage Conditions:</b>	Store at Room Temperature (15° to 30°C).	<b>Expiration Date:</b>	30-Nov-2024

Analyte	Certified Value	CAS#	Verification	NIST SRM
sodium chloride (as sodium)	249.4 ± 2.0 mmol/L	007647-14-5	ICP-OES	3152a

**Matrix:** water (low TOC, < 50 ppb)

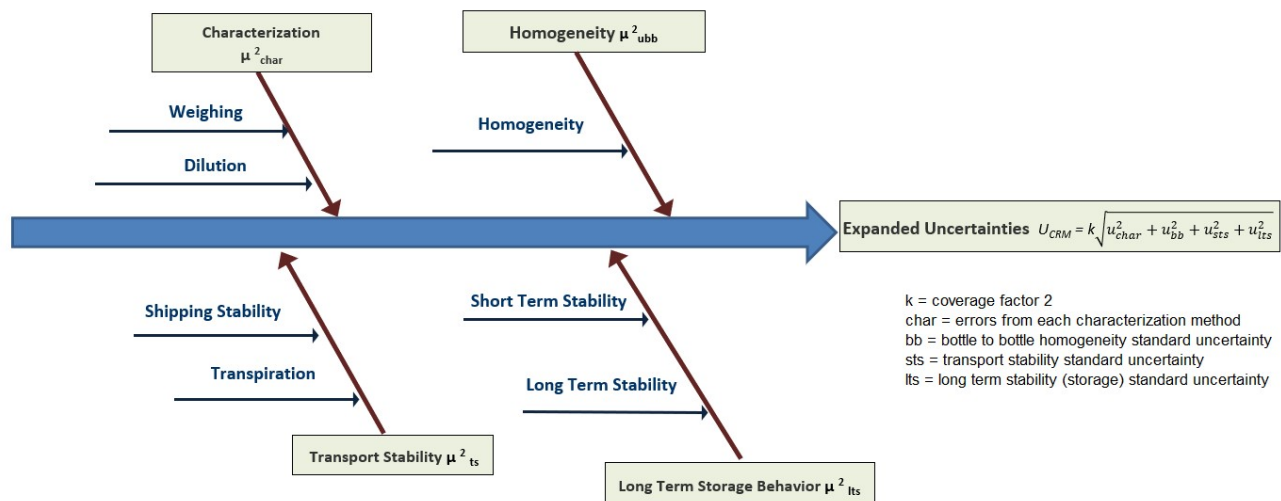
**Description:**

This document was prepared in accordance with ISO 17034 and Guide 31. This Certified Reference Material is intended for use as a calibration standard for the quantitative determination of the analyte listed. The CRM was manufactured and verified in accordance with the ISO 9001 registered Quality Management System. The certified concentration value reported for the analyte is based upon the gravimetric and volumetric measurements made during the preparation of the standard. The analyte concentrations were verified by the accredited ISO 17025 laboratory using an appropriate analytical technique.

**Traceability:**

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1, 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.

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using the coverage factor of k=2.



**Homogeneity:**

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Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated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

**Intended Use:**

This analytical 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 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.

**Sample lot approver:**

Monica Bourgeois  
QMS Representative