



Certificate of Analysis

CERTIFIED REFERENCE MATERIAL

Hydrochloric Acid (Dilution Matrix)

Lot N: 1115385
Barcode: 61306882

Ref N: OP 014 1000

Certification Date: 09.05.2025

Component	Certified Value* (g/l)	Uncertainty** (g/l)
HCL	10.00	+/- 0.01

* The certified value was obtained using classical volumetric analysis acc. to in-house procedure WQP 5.15.1/13

** The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA 4/02.

Ph Eur: This product conforms to the specifications given in 2.2.2. of the European Pharmacopoeia

Metrological traceability: BAM RefN 93440 LotN BCCK0309

The metrological traceability is assured through calibration by classical volumetric analysis, using standard solutions prepared from a certified reference material traceable to SI of NIST (SRM) and of accredited according to ISO/IEC 17025 and/or ISO 17034 laboratories/producers. All contributions in relation to the preparation of standard solutions are considered when evaluating the uncertainty.

This certified reference material is produced in deionized water with conductivity no more than 5 uS/cm

The measurement results are traceable to SI.

All analytical balances used for the preparation of the solution are calibrated yearly under an in-house procedure WQP 5.15.1.3 with class E1 and class E2 analytical weights, traceable to DKD and are daily checked.

Class A laboratory glassware is used.

The results from temperature measurement are traceable to SI. The thermometers used for solution's calibration are calibrated from an ISO 17025 accredited laboratory. The ambient conditions are controlled with a hygrometer calibrated from an ISO 17025 accredited laboratory

Expiry date: 09.06.2027

Storage Conditions: Store under normal laboratory conditions, at temperatures between 15°C to 25°C

Intended use: For Laboratory Use Only

This CRM is intended for:

- Calibration of classical volumetric analysis.
- Validation of analytical methods
- Preparation of "working reference samples"
- Detection limit and linearity studies

This statement is not intended to restrict the use for other purposes.

Instructions for the correct use of this reference material:

This certified reference material can be used directly. Do not pipette from container.

The bottle should be open for the minimum time required to dispense the solution. After use, the bottle should be tightly recapped.

Stability and storage:

This CRM is with a guaranteed stability until 0.5% of the certified value within its shelf-life. Stability is guaranteed, provided that the solution is kept in its original packaging, tightly closed stored, as written in the section: Storage Conditions. According to an in-house procedure the producer will monitor this CRM at appropriate intervals and the purchasers will be notified of any significant changes resulting in recertification or with withdrawal of the CRM during the state period of the validity of the certificate.

Hazardous situation:

The normal laboratory safety precautions should be observed when working with this RM. Further details for the handling of this RM are available as safety data sheet.

Level of homogeneity:

This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. To ensure sufficient homogeneity of the sample prior to use thoroughly mix by inversion.

Names of certifying officers:

Laboratory: Dinko Gospodinov

Manager: Krassimira Taralova

This certificate has been computer generated and does not signed

This document is designed and the certified value(s) and uncertainty(ies) are determined in accordance with ISO Guide 31, ISO Guide 35, and Eurachem / CITAC Guides

This certificate relates solely to the lot number given above.

All processes (including generating of this certificate) are completely controlled by the specialized Computer-Aided-Manufacturing (CAM) software.

This Certified Reference Material was produced under a quality management system that is:

- Registered to ISO 9001 Quality Management System (Lloyd's Register Quality Assurance Ltd Cert No 0039638)
- Accredited according to ISO/IEC 17025
- Accredited according to ISO 17034

Signed by: , Chemical Production Manager