

CERTIFIED REFERENCE MATERIAL Organic substance

Ref No: CM 52172

Barcode: 41559918

Description: D-(+)-Glucose

CAS No: 50-99-7

Lot No: 1075989

Certification Date: 10.01.2025

Expiry date: 10.02.2027

Purity=100% - Assay organic impurities

Water content: 0.7 mg/g

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

Method of certification:	Concept of Certification and traceability statement:	Intended use:	Instructions for the correct use of this reference material:	Stability and storage:	Level of homogeneity:
CRM's calibration procedure (WQP 5.15.1/22)	<p>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.</p> <p>Metrological traceability is established through in-house validated method.</p> <p>The measurement results are traceable to SI.</p>	<p>For Laboratory Use Only.</p> <p>This CRM is intended for: Calibration of TLC, GC/FID, GC/TCD, GC/ECD, GC/MS, GC/MS/MS, LC/UV, LC/MS and LC/MS/MS.</p> <p>Validation of analytical methods.</p> <p>Preparation of "working reference samples".</p> <p>Detection limit and linearity studies.</p> <p>This statement is not intended to restrict the use for other purposes.</p>	<p>This CRM can be used directly or can be diluted in an appropriate solvent. Only a clean glassware should be used.</p> <p>Hazardous situation: The normal laboratory safety precautions should be observed when working with this CRM. Further details for the handling of this chemical are available as safety data sheet.</p>	<p>This CRM is with a guaranteed purity +/- 2% deviation prior to the expiration date. Stability is guaranteed, provided that the material is kept in its original packaging, tightly closed stored, as written in the section: Storage Conditions.</p>	<p>The material was tested for homogeneity by analyzing randomly selected samples according to an in-house procedure. The level of homogeneity proved satisfactory for a sample volume of min. 2 mg. The uncertainty incorporates the sample standard deviation combined with the uncertainty calculated from homogeneity and stability studies.</p>

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

This document is designed and the certified value and uncertainty are determined in accordance with ISO 33401, ISO 33405, and Eurachem / CITAC Guides

Signed by:  Manufacturing Manager

Analytical Data:

ESI Conditions

		Time	Isocratic elution
Capillary Voltage:	4000 V		A%
Drying Gas Flow:	10 l/min	0	80
Drying gas temperature:	350°C	5	20
Nebulizer Pressure:	40 psig		80
Quad temp:	100°C		20

LC Conditions

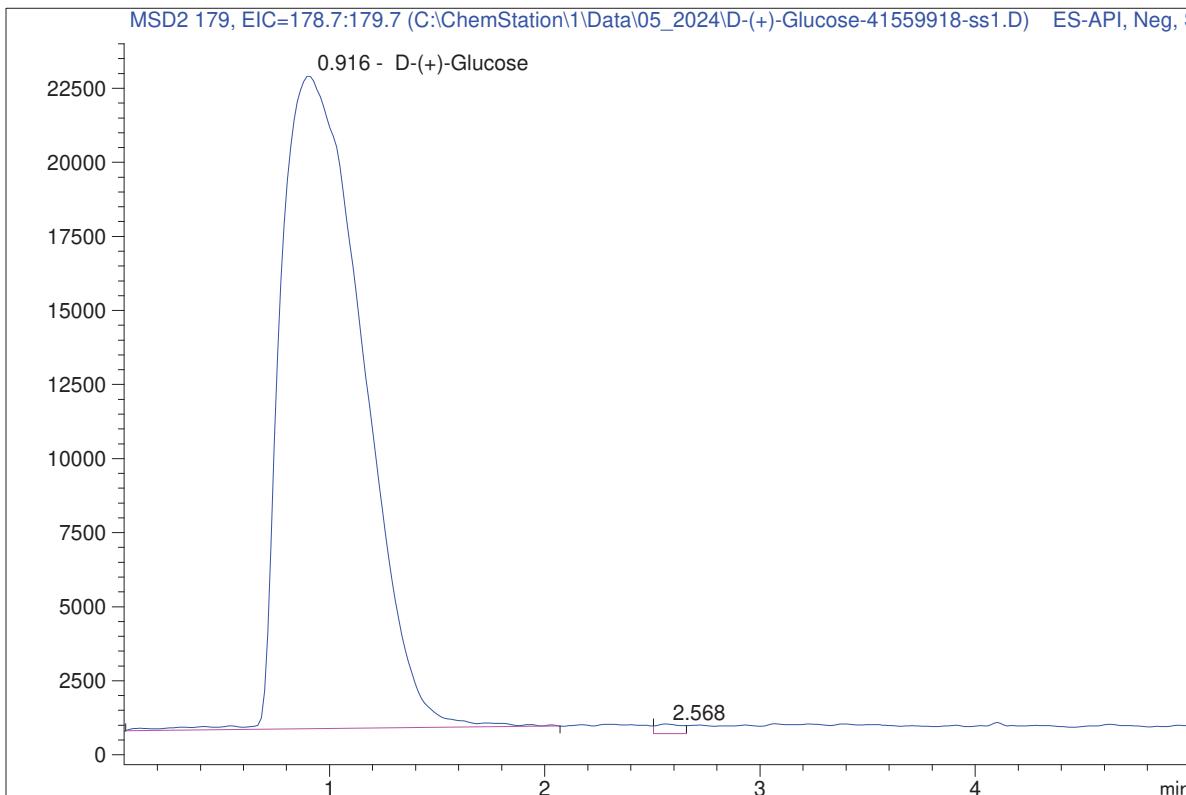
Column:	Agilent Poroshell 120 EC-C18 3x50 mm, 2.7µm
Column temp.:	30°C
Flow rate:	0.5 ml/min
Injection volume:	1µl
Mobile phase:	A: 0.1 % Formic acid B: Acetonitrile

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Sample Name: D-(+)-Glucose-41559918-ss1 Location: P2-E1

Inj. Vol.: 2 μ l

Acq. Method: C:\CHEMSTATION\1\METHODS\CAPORGAN-5min.M
Analysis Method: C:\CHEMSTATION\1\METHODS\CAPORGAN_CALC.M



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Signal 1: MSD2 179, EIC=178.7:179.7

Name	Height	Area	Area %
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D-(+)-Glucose	2.207e4 331.073	5.787e5 2.711e3	99.534 0.466