

Certificate of Analysis
ISO 17034 Reference Material



Product Identification

Article Code: DRE-C16901000
Article Name: Saccharin
Formula: C7H5NO3S
Mol. Weight: 183.18
CAS No.: 81-07-2
Lot Number: G977635
Expiry Date: 12.10.2024
Storage Temperature: 20°C ± 4°C

Storage and handling: The RM should be stored in the original sealed bottle at the temperature given above. After use the bottle should be tightly closed and protected from moisture.

Table with 2 columns: Property, Value. Rows: Purity (98.74% (g/g)), Expanded Uncertainty U= (0.41% (g/g))

The uncertainty of this standard is calculated in accordance with the ISO 17034 and EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement, Second Edition.
The expanded uncertainty is U(exp) = u(RM) x k, where k is the coverage factor at the 95% confidence level (k=2).
Minimum sample: 1 mg is recommended as the minimal sample amount.
Intended use: Use this RM as calibrant for chromatography or any other analytical technique.

Analytical Data

Traceability of chromatography: To the International System of Units (SI).
Table with 4 columns: Instrument, Detection, Column, Inj.-Vol., Flow, Ret.Time, Method Details, Eluent A, Eluent B. Rows: UHPLC/DAD, DAD, LUNA Omega C18 1.6 µm 100 x 2.1 mm, 2.0 µl, 0.5 ml/min, 1.11 min, WA + 0.5% H3PO4, Acetonitrile, and a chromatogram table with Time, Eluent A [%], Eluent B [%] values.

Comment
Traceability: The balances used are calibrated with weights traceable to the national standards (DKD).
Calibrated class A glassware is used for volumetric measurements.
Water Content: 0.39% (g/g) by Karl-Fischer-Titration (U(exp) = 0.03% (g/g)).
Purity was determined by elemental analysis
Identity: EA, NMR, RT, IR, UV, MS
Attachment: Exemplary chromatogram of given method
Certificate Revision 1 - 12.10.2018 - N. Müller

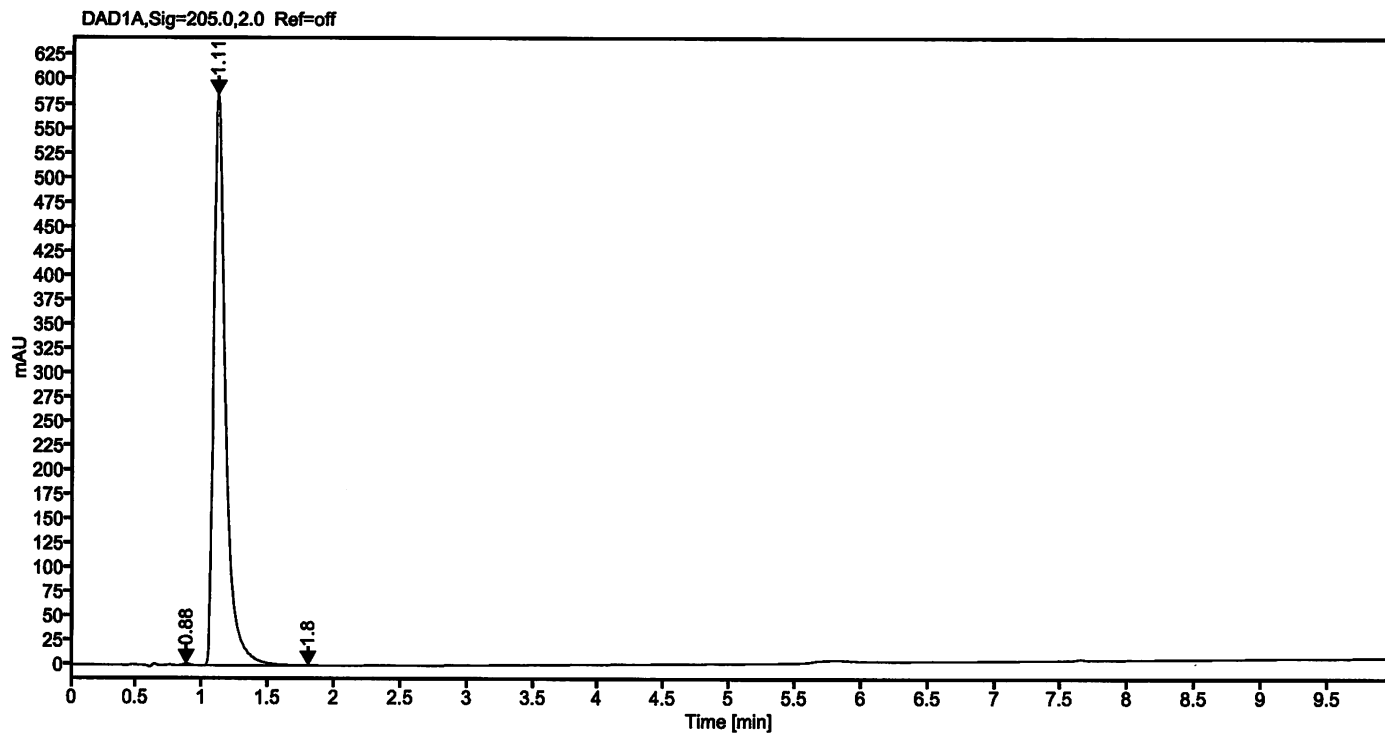
Certified on: 12.10.2018
Certified by: N. Müller
RM Release
[Signature]

The LGC Labor GmbH, accredited by DAkKS as indicated by the accreditation number D-RM-19883-01 & D-PL-19883-01, has shown competence based on ISO 17034:2017 with relevant parts of DIN EN ISO/IEC 17025:2018 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions of organic pure substances.

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The warranty for this product is limited to the purchasing price of this product.

11-10-1012

Data file:	16901000-03.dx	Instrument:	UHPLC 2
Sample name:	81002WA G977635	Sequence Name:	04102018-1
Inj. volume [µl]:	2.0	Injection date:	10/4/2018 3:18:17 PM
Acq. method:	Gradient_10-100_P.amx	Location:	P1-D2
Sample Description	Saccharin		



Signal: DAD1A,Sig=205.0,2.0 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	0.88	7.85272	2.14	0.21
2	1.11	3688.23375	586.11	99.68
3	1.80	3.82989	0.73	0.10
Sum		3699.92		

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