

Certificate of Analysis



ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C10065400
Article Name: Albendazole-sulfoxide
Formula: C₁₂H₁₅N₃O₃S
Mol. Weight: 281.33
CAS No.: 54029-12-8

Lot Number: G978619
Expiry Date: 30.07.2021
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.

Purity: 97.52% (g/g)

Expanded Uncertainty U= 0.72% (g/g)

The uncertainty of this standard is calculated in accordance with the ISO Guide 34 and EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement, Second Edition. The expanded uncertainty is $U(\text{exp}) = u(\text{RM}) \times k$, where k is the coverage factor at the 95% confidence level ($k=2$). Uncertainty $u(\text{RM})$ is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: $u(\text{RM}) = \sqrt{u(\text{char})^2 + u(\text{bb})^2 + u(\text{Its})^2 + u(\text{sts})^2}$; $u(\text{char})$ is the uncertainty of characterisation; $u(\text{bb})$ uncertainty of homogeneity test; $u(\text{Its})$ uncertainty of stability test long-term; $u(\text{sts})$ uncertainty of stability test short-term. $u(\text{Its})$ and $u(\text{sts})$ are not included in the calculation as the stability statement is based on real evidence opposed to simulation.

Minimum sample: 1 mg is recommended as the minimal sample amount. If less material is used, it is recommended to increase the certified uncertainty by a factor of two for half sample and a factor of four for a quarter of sample.

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).

Instrument: HPLC/DAD	Method Details
Detection: DAD	Acetonitrile:Water 4:1
Column: ReproSil 100 C18 5 µm 250 x 3 mm	
Inj.-Vol.: 3 µl	
Flow: 1.0 ml/min	
Ret.Time: 1.27 min	

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: 0.74% (g/g) by Karl-Fischer-Titration ($U(\text{exp}) = 0.15\%$ (g/g)).

Purity was determined by chromatographic assay, corrected by water content and/or residue solvents.

Identity: EA, NMR, RT, IR, UV, MS

Certificate Revision 1 - 30.07.2018 - N. Müller

Certified on: 30.07.2018
Certified by: N. Müller
RM Release

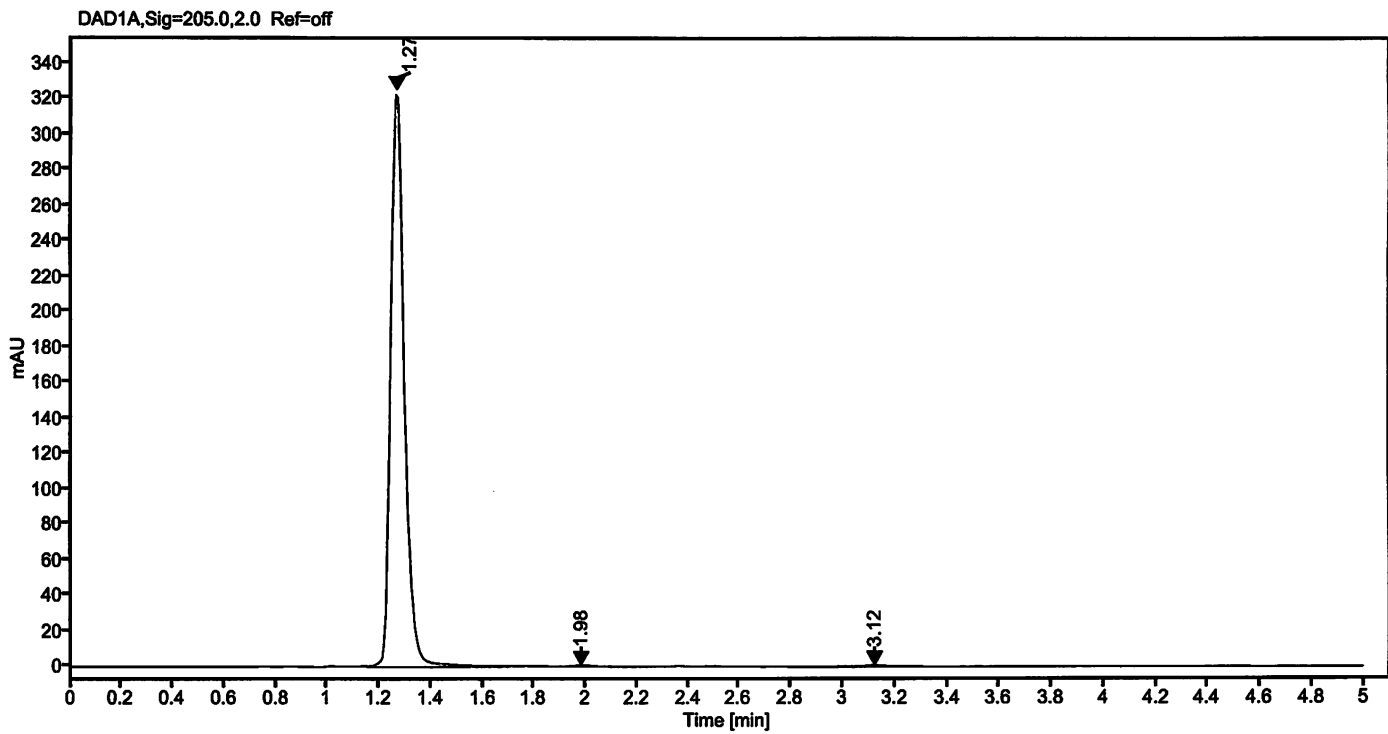
The LGC Labor GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-19883-01 & D-PL-19883-01, has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions of organic pure substances.

LGC Labor GmbH - Bgm.-Schlosser-Straße 6A - 86199 Augsburg - Germany
Phone +49 821 906080 - Fax +49 821 9060888 - augsburg.inquiry@lgcgroup.com
The warranty for this product is limited to the purchasing price of this product.

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Data file: 10065400-05.dx Instrument: DAD3
Sample name: 80720AL G978619 Sequence Name: 23072018-1a
Inj. volume [µl]: 3.0 Injection date: 7/23/2018 7:58:36 PM
Acq. method: 41PK.amx Location: 58

Sample Description Albendazole-sulfoxide



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

Nr.	RT [min]	Area	Height	Area%
1	1.27	1191.62425	324.83	99.22
2	1.98	3.48386	0.74	0.29
3	3.12	5.93362	0.82	0.49
	Sum	1201.04		