



Certificate of Analysis

ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C10065300
Article Name: Albendazole-sulfone
Formula: C₁₂H₁₅N₃O₄S
Mol. Weight: 297.34
CAS No.: 75184-71-3

Lot Number: G138073
Expiry Date: 13.03.2021
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 and light. The expiry date is valid for original sealed bottles under recommended storage conditions only.

Purity: 97.05% (g/g)

Expanded Uncertainty U= 0.55% (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: $u(\text{RM}) = \sqrt{u(\text{char})^2 + u(\text{bb})^2 + u(\text{ts})^2 + u(\text{sts})^2}$; $u(\text{char})$ is the uncertainty of purity determination; $u(\text{bb})$ uncertainty of homogeneity test; $u(\text{ts})$ uncertainty of stability test long-term; $u(\text{sts})$ uncertainty of stability test short-term. $u(\text{ts})$ 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+0.5% H ₃ PO ₄ 4:1
Column:	ReproSil 100 C18 5 µm 250 x 3 mm	
Inj.-Vol.:	30 µl	
Flow:	1.0 ml/min	
Ret.Time:	1.18 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.

Certificate Revision 1

Water Content: 0.07% (g/g) by Karl-Fischer-Titration ($U(\text{exp}) = 0.03\%$ (g/g)).

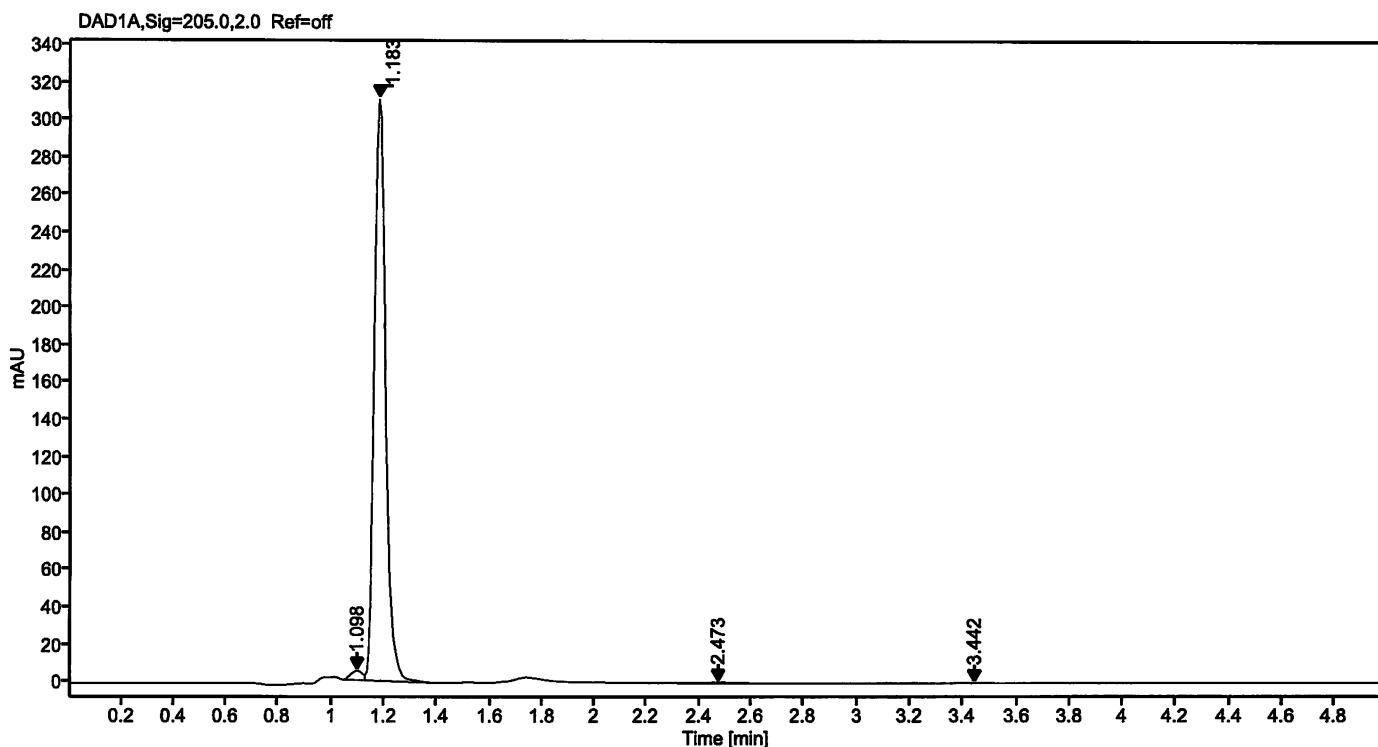
Identity: EA, NMR, RT, IR, UV, MS

Certified on: 20.04.2017
Certified by: N. Müller

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.

Data file: 10065300-6.dx **Instrument:** DAD4
Sample name: 70418AL G138073 **Sequence Name:** 09032017-6
Inj. volume [µl]: 30.0 **Injection date:** 3/9/2017 11:53:07 AM
Acq. method: 41PK.amx **Location:** 6

Sample Description Albendazole-sulfone



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

Nr.	RT [min]	Area	Height	Area%
1	1.098	15.11509	5.02	1.59
2	1.183	928.78237	311.31	97.96
3	2.473	2.98662	0.54	0.31
4	3.442	1.27036	0.17	0.13
	Sum	948.15		

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