Certificate of Analysis

ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C12198500
Article Name: 2,5-Diaminotoluene sulfate
Formula: C7H10N2 H2SO4
Mol. Weight: 220.24
CAS No.: 615-50-9

Lot Number: G286098
Expiry Date: 18.09.2023
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:	99.05% (g/g)
Expanded Uncertainty U=	0.91% (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(exp) = u(RM) x k, where k is the coverage factor at the 95% confidence level (k=2). Uncertainty u(RM) is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: $u(RM) = \sqrt{u(char)^2 + u(bb)^2 + u(lts)^2 + u(sts)^2}$; u(char) is the uncertainty of characterisation; u(bb) uncertainty of homogeneity test; u(lts) uncertainty of stability test long-term; u(sts) uncertainty of stability test short-term. u(lts) and u(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
Detection:	DAD
Column:	Zorbax NH2 5 µm 150 x 4.6 mm
Inj.-Vol.:	10 µl
Flow:	1.0 ml/min
Ret.Time:	1.16 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: <0.10% (g/g) by Karl-Fischer-Titration (U(exp) = 0.08% (g/g)).
Identity: EA, NMR, RT, IR, UV, MS

Certificate Revision 1 - 05.06.2018 - M. Beck

Certified on: 05.06.2018
Certified by: M. Beck
RM Release

The LGC Labor GmbH, accreditated 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.

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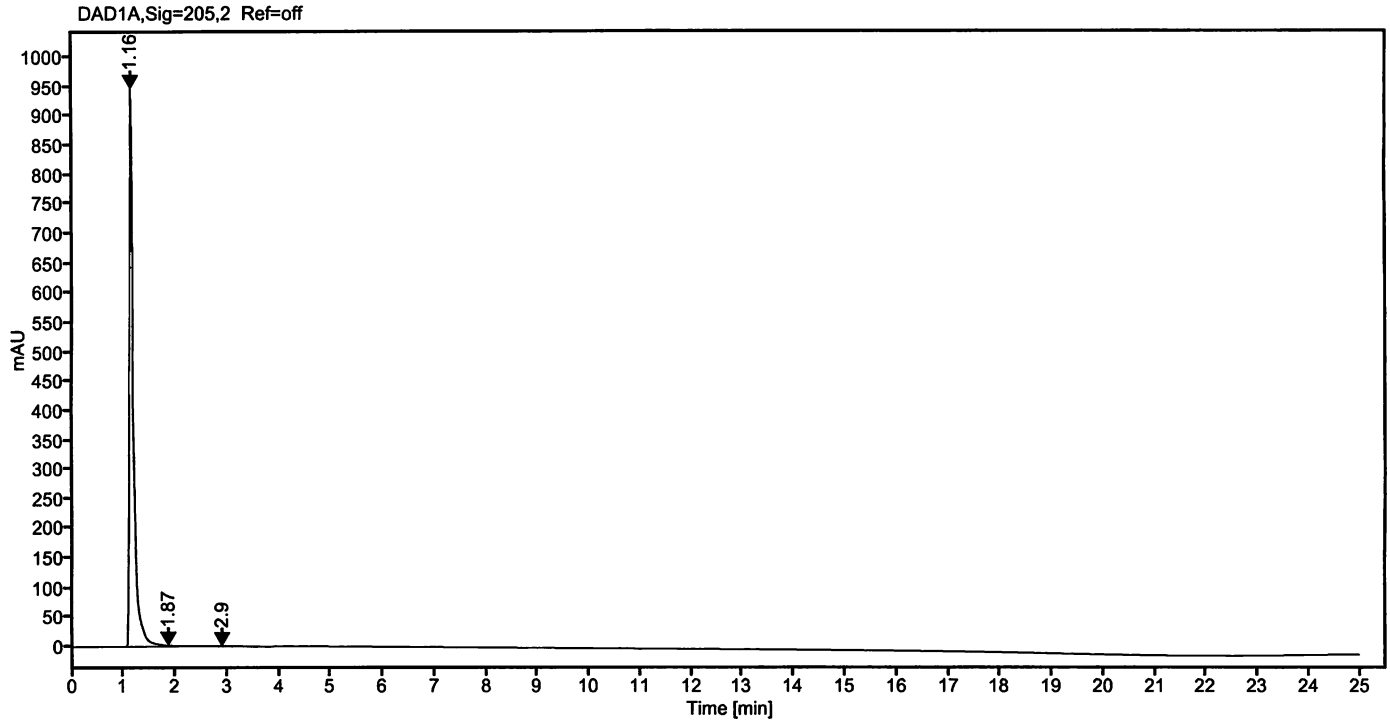
07.05.18
HG

Data file:	12198500-03-r001.dx	**Instrument:**	DAD5
Sample name:	80420WA G286098	**Sequence Name:**	20042018-Instabil
Inj. volume [µl]:	10.0	**Injection date:**	4/20/2018 9:00:36 AM
Acq. method:	S4_Gradient_10-100_K.amx	**Location:**	P5-A1

Sample Description 2,5-Diaminotoluene sulfate
Column: Zorbax NH2, 5 µm, 150 x 4.6 mm



Signal: DAD1A,Sig=205,2 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	1.16	5112.47914	947.24	99.19
2	1.87	21.30738	1.73	0.41
3	2.90	20.30564	0.58	0.39
	Sum	5154.09		