

REFERENCE MATERIAL CERTIFICATE

Reference Material

This certificate is designed in accordance with ISO Guide 31. This reference material (RM) was designed, produced and verified in accordance with a registered quality management system ISO 9001. All measurements were performed according to ISO/IEC 17025 by a DAkkS accredited laboratory (D-PL-19883-01-00).

Product Name

Metobromuron D6 (methyl D3 methoxy D3) 100
µg/mL in Acetone

Product Code

DRE-XA15160100AC

CAS No.

2732834-84-1

Mol. Weight

265.14

Mol. Formula

C₉D₆H₅BrN₂O₂

Lot Number

1473664AC

Format

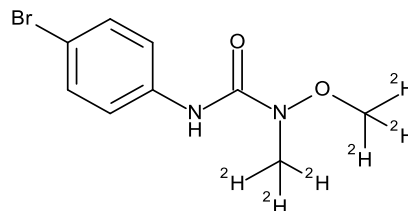
Solution

Expiry Date

13 Aug 2030

Storage Temp

20°C ± 4°C



CERTIFIED

Concentration
100.2 µg/mL

CERTIFIED

Expanded Uncertainty (U)
5.1 µg/mL

Uncertainty

The certified value(s) and uncertainty(ies) are determined in accordance with EURACHEM/CITAC Guide for "Quantifying Uncertainty in Analytical Measurement, 3rd edition", with an 95% confidence level (k=2). Uncertainty is based on the Total Combined Uncertainty, including uncertainties of characterisation and stability testing. Stability values are based on real evidence opposed to simulation.

The producer certifies that this reference material meets the specification stated in this certificate until the expiry date, provided it is stored unopened at the recommended temperature herein. Product warranties for this reference material are set out in the terms and conditions of purchase.

CERTIFIED BY

T. Erz

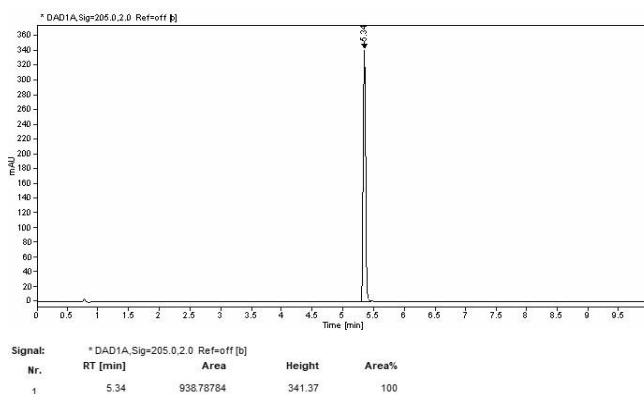
CERTIFIED ON

13 Aug 2024

RM Release

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CHROMATOGRAM



Instrument

UHPLC/DAD

Column

LUNA Omega C18 1.6 µm 100 x 2.1 mm

Method Details

Eluent A: 100% Acetonitrile

Eluent B: Water + H₃PO₄

Time [min]	Eluent A [%]	Eluent B [%]
0	10	90
0.3	10	90
8	98	2
9.5	98	2

Flow

0.5 mL/min

Method of Preparation

The certified value is based on gravimetric and volumetric preparation of this RM. This RM has been confirmed by the appropriate analytical techniques.

Batch Information

Solvent: Acetone, Lot No. 220321417, 30.00 mL.

Concentration calculation based on Combined Purity = Chemical Purity * Isotopic Value.

Isotopic composition: 99.1% D₆, 0.6% D₅, 0.2% D₂, 0.1% D₀

Gravimetric Data

Compound Name	Lot No.	Combined Purity (%)	Weight (mg)	Chemical Purity (%)	Isotopic Purity (%)
Metobromuron D ₆ (methyl D ₃ methoxy D ₃)	1075835	98.8	3.041	99.1	99.6

Intended Use

This RM is intended for use in a laboratory as a calibration and quality control standard or in method development for analytical techniques.

the balances is verified daily internally and annually by an external accredited calibration service. Chromatographic methods are traceable to the International System of Units (SI).

Instructions for use

The RM should be used shortly after opening to avoid concentration changes due to evaporation. It is recommended to use 1 mL as the minimum sample size and if less material is used, to increase the certified uncertainty by a factor of two for half sample and four for a quarter of sample. If storage after opening is necessary, the RM should be tightly closed and kept from light and moisture. If the RM was in a sealed ampoule, it should be transferred to a vial with minimum head space. Visit the support section of our website lgcstandards.com for a series of Dr. Ehrenstorfer Tech Tip videos and frequently asked questions.

Safety

Proper precautions should be observed while handling. See Safety Data Sheet.

Storage

The RM should be stored in the original sealed container at the indicated temperature.

Traceability

The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (DKD). The calibration of