

# Certificate of Analysis

**EHRENSTORFER™**

## Product Identification

15201301 Metronidazole-hydroxy D2

CA 1H-Imidazole-1-ethanol, 2-(hydroxy(methyl-D2))-5-nitro-

IUPAC 1-(2-Hydroxyethyl)-2-hydroxymethyl-D2-5-nitroimidazole

Formula C<sub>6</sub>H<sub>7</sub>N<sub>3</sub>O<sub>4</sub>D<sub>2</sub>

Mol.Weight 189.15

CAS No. .

Expiry Date 19.10.2022

Lot Number 987474

Store at 4 °C ±4 °C

Please note: The expiry date is valid under recommended storage conditions only.

## Toxicological Data



R Code 40

S Code 22-25

LD50 (Rats female/male in mg/kg) N/A

## Physical Data

Phase crystalline solid

Color colourless

Melt.Range

Vapour pressure N/A at °C

Solubility in water 10 g/l at 20 °C

Boiling Range (lit.)

## Analytical Data

Detection: HPLC/DAD

Column:

Inj.-Vol.:

Flow: 1.0 ml/min

Ret.-Time: 2.69 min.

Method Details:

Eluent A: Acetonitrile:H<sub>2</sub>O+0,5% H<sub>3</sub>PO<sub>4</sub> 1:9 for 1 min

Eluent B: Acetonitrile 100% for 5 min

Eluent A -&gt; Eluent B: 19 min

Identity: UV, RT, MS

Comment Inj. Vol.: 5 µl

Column: Lichrospher Diol 5µm 250 x 4 mm

Chemical purity: 99.9%

Isotopic Value: 99.6% (99.4% D<sub>2</sub>, 0.4% D<sub>1</sub>, 0.1% D<sub>0</sub>)

Purity was determined by chromatographic assay

Water Content

Determined by Karl-Fischer Titration

Det. Purity 99.5 %

Tolerance/Uncertainty +/- 2.0 %

The uncertainty/tolerance of this standard is calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is U which is Uc(y)\*K, where K is the coverage factor at the 95% confidence level (K=2). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.

Certified on 19.10.2018

by M. Beck

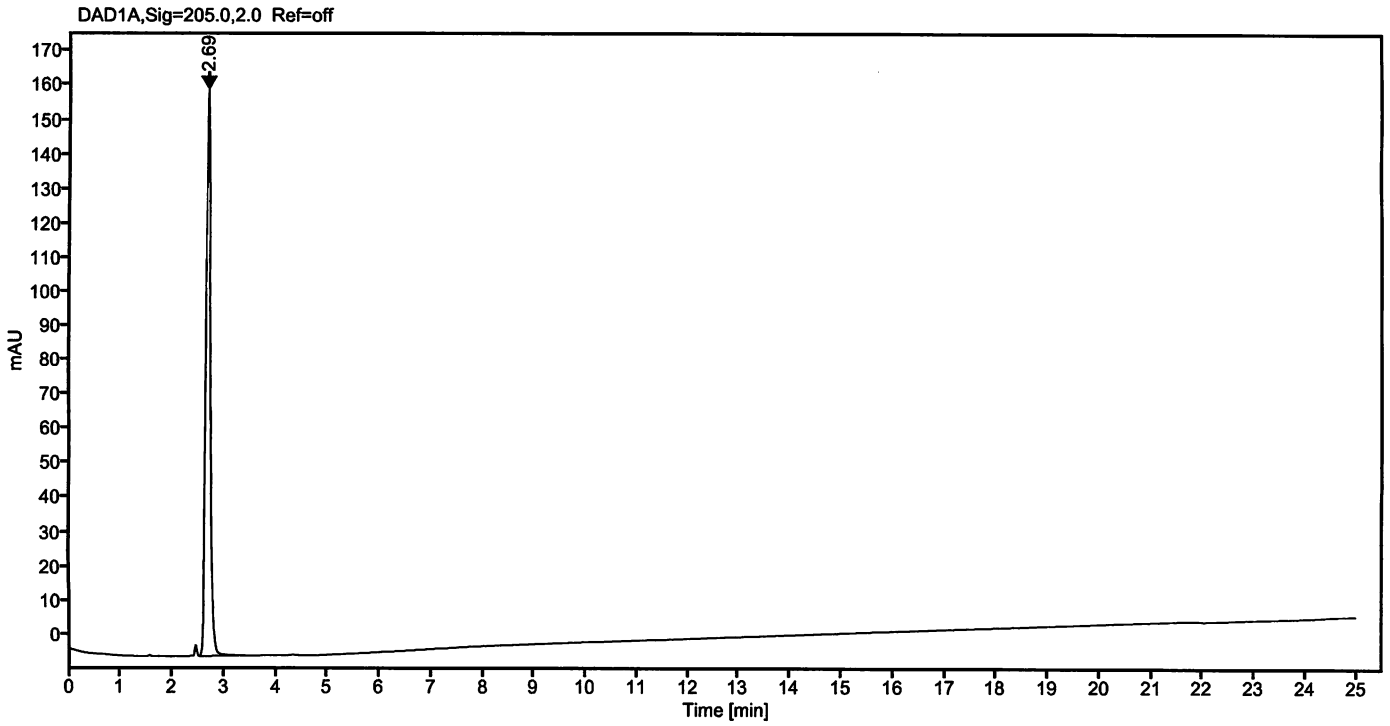
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

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

18.10.18  
UG

**Data file:** 15201301-03-r001.dx      **Instrument:** DAD3  
**Sample name:** 81017AL 987474      **Sequence Name:** 18102018-Diol  
**Inj. volume [µl]:** 5.0      **Injection date:** 10/18/2018 12:21:08 PM  
**Acq. method:** Gradient\_10-100\_PK\_S2.amx      **Location:** 7

**Sample Description**      Metronidazole-hydroxy D2  
Column: Lichrospher Diol 5µm 250 x 4 mm



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

Nr.	RT [min]	Area	Height	Area%
1	2.69	1014.55399	165.00	100.00
	Sum	1014.55		

*J. B. A.*