

Certificate of Analysis

Dr. Ehrenstorfer

Reference Materials for
Residue Analysis

Product Identification

15201001 Metronidazole D4 (ethylene D4)

CA 2-Methyl-5-nitro-1H-imidazole-1-ethan-(1,1,2,2-D4)ol

IUPAC 1-(2-Hydroxyethyl-1,1,2,2-D4)-2-(methyl)-5-nitroimidazole

Formula C₆H₅N₃O₃D₄

Mol.Weight 175.18

CAS No. 1261392-47-5

Expiry Date 21.10.2014

Lot Number 00514

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 39

LD50 (Rats female/male in mg/kg) 3000

Physical Data

Phase crystalline solid

Color colourless

Melt.Range 160,6-161,2 °C

Vapour pressure N/A at °C

Solubility in water 10 g/l at 20 °C

Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Column: ReproSil 100 C18 5µ 250x3

Inj.-Vol.: 1.00 µl

Flow: 1.0 ml/min

Ret.-Time: 1.06 min.

Method Details:

Acetonitrile:H₂O 2:1

Identity: NMR, RT, UV

Comment Isotopic purity of 99.5 % was determined by ¹H- and ¹³C-NMR-spectroscopy.
Purity was determined by external standard method.

Water Content Determined by Karl-Fischer Titration

Det. Purity 99.0 % Tolerance/Uncertainty +/- 0.5 %

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 U_c(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 25.10.2010

by Dr. H. Meinholz



The Laboratory Labor Dr. Ehrenstorfer-Schäfers is accredited by DGA as indicated by the Accreditation Certificate DGA-PL-4536.00 based on DIN EN ISO/IEC 17025:2005 for the weighing of amounts of substances for the preparation of standard solutions.

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

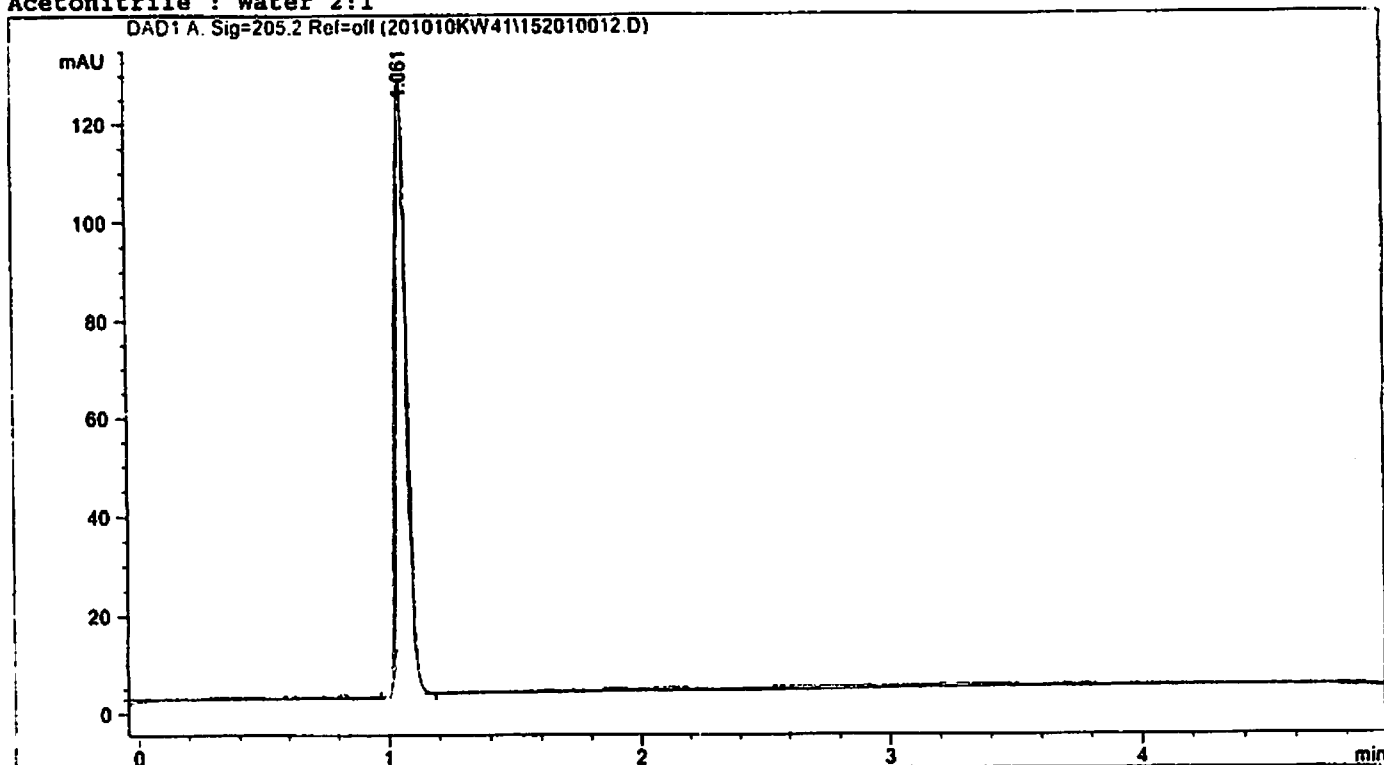


DGA-PL-4536.00

Vatyp
12.10.10

Metronidazole D4

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Injection Date : 12.10.2010 04:51:02 Seq. Line : 42
Sample Name : 00514 Location : Vial 24
Acq. Operator : Inj : 2
Acq. Instrument : Instrument 1 Inj Volume : 10 µl
Different Inj Volume from Sequence ! Actual Inj Volume : 1 µl
Sequence File : D:\CHEM32\1\SEQUENCE\1.S
Method : D:\CHEM32\1\METHODS\21K.M
Last changed : 01.10.2010 10:52:35
Acetonitrile : Water 2:1



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Area Percent Report
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Sorted By : Retention Time
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=205,2 Ref=off

Peak #	RetTime [min]	Sig	Type	Area [mAU*s]	Height [mAU]	Area %
1	1.061	1	VB	369.31000	126.31644	100.0000

Totals : 369.31000 126.31644

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*** End of Report ***