

Certificate of Analysis

**EHRENSTORFER™**

Product Identification

14282020 Imazamox-O-desmethyl

CA 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-

IUPAC

Formula C₁₄H₁₇N₃O₄

Mol.Weight 291.30

CAS No. 81335-78-6

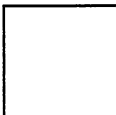
Expiry Date 10.10.2021

Lot Number 765904

Store at 20 °C ±4 °C

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

Toxicological Data



R Code

S Code

LD50 (Rats female/male in mg/kg)

Physical Data

Phase crystalline solid

Color yellowish

Melt.Range 168.5 °C

Boiling Range (lit.)

Analytical Data

Detection: UHPLC/DAD

Column: LUNA Omega C18 1.6 µm 100 x 2.1 mm

Inj.-Vol.: 2.00 µl

Flow: 0.5 ml/min

Ret.-Time: 2.52 min.

Method Details:

Eluent A: WA + 0.5% H₃PO₄

Eluent B: Acetonitrile

Time/min	A	B
0	90%	10%
0.3	90%	10%
8	0%	100%
9.5	0%	100%
10	90%	10%

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

Comment Purity was determined by chromatographic assay corrected by water and/or residue solvents.

Water Content 0.7 % Determined by Karl-Fischer Titration

Det. Purity 97.4 % Tolerance/Uncertainty +/- 1.0 %

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 $Uc(y) \cdot K$, 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 10.10.2018

by M. Beck

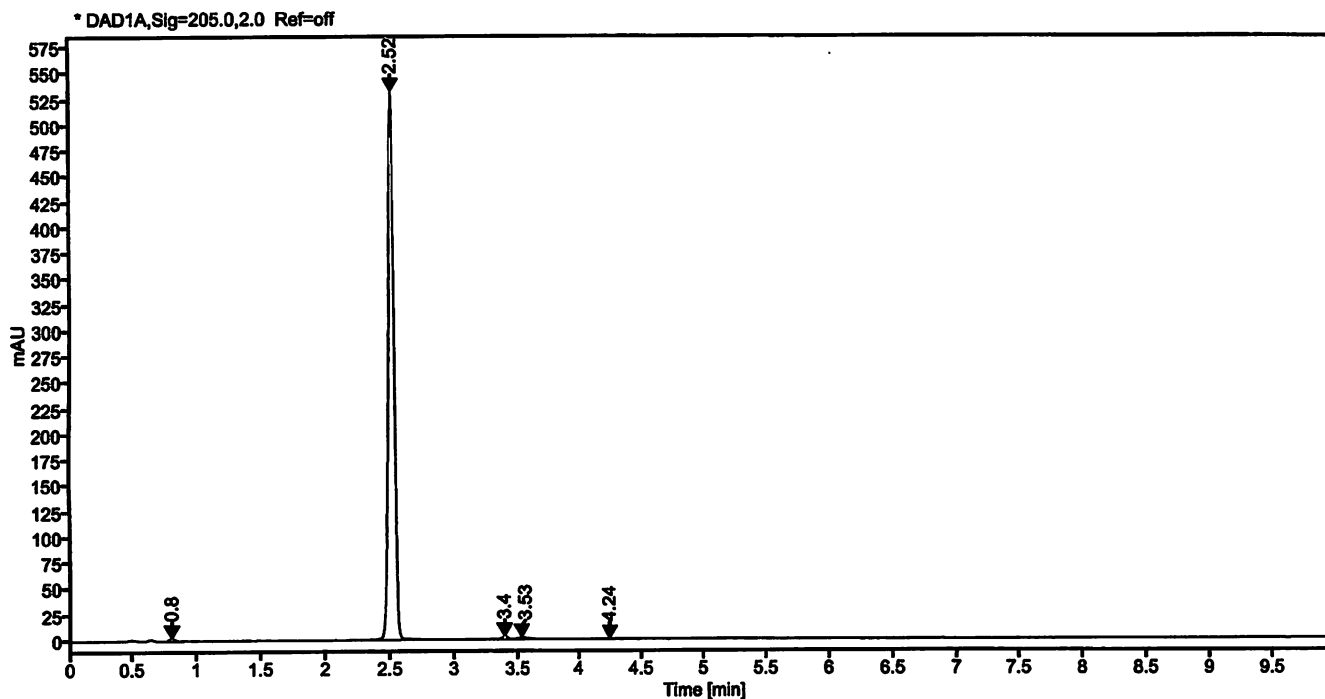
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

Data file: 14282020-03-r001.dx
 Sample name: 80913WA 765904
 Inj. volume [µl]: 2.0
 Acq. method: Gradient_10-100_P.amx

Instrument: UHPLC 2
 Sequence Name: 09102018-1
 Injection date: 10/9/2018 3:55:47 PM
 Location: P1-B1

Sample Description Imazamox-O-desmethyl



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

Nr.	RT [min]	Area	Height	Area%
1	0.80	7.19609	2.53	0.43
2	2.52	1640.77246	532.31	98.26
3	3.40	9.87503	3.11	0.59
4	3.53	10.87930	2.08	0.65
5	4.24	1.07517	0.40	0.06
	Sum	1669.80		

J. B. R.