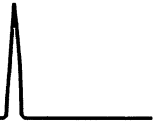


Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

15502000 Nereistoxin oxalate
CA 1,2-Dithiolane-4-amine, N,N-dimethyl-, ethanedioate (1:1)
IUPAC 4-(N,N-Dimethylamino)-1,2-dithiolane oxalate
Formula C₅H₁₁NS₂ x C₂H₂O₄
Mol.Weight 239.31
CAS No. 1631-52-3

Reference Materials for Residue Analysis

Expiry Date 09.04.2019
Lot Number 50211
Store at 20 °C ±4 °C

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

Toxicological Data	Physical Data
 R Code 21/22 S Code 22-36/37-45 LD50 (Rats female/male in mg/kg) N/A	Phase crystalline solid Color yellowish Melt.Range Vapour pressure N/A at °C Solubility in water N/A g/l at °C Boiling Range (lit.)
Analytical Data Detection: LC/MSD Column: ReproSil 100 C18 5µ 250x3 Inj.-Vol.: 10.00 µl Flow: 0.5 ml/min Ret.-Time: 3.28 min.	Method Details: Acetonitrile:H ₂ O+0,15% Formic acid 1:1
Identity: RT, MS Comment Purity was confirmed by external standard method.	
Water Content Determined by Karl-Fischer Titration Det. Purity 99.9 % 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 $Uc(y)*K$, 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 09.04.2015
by V. Wagner

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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Phone +49 821 906080 · Fax +49 821 9060888 · augsburg.inquiry@lgcgroup.com
The warranty for this product is limited to the purchasing price of this product.

Sample Name: 50216WA 50211

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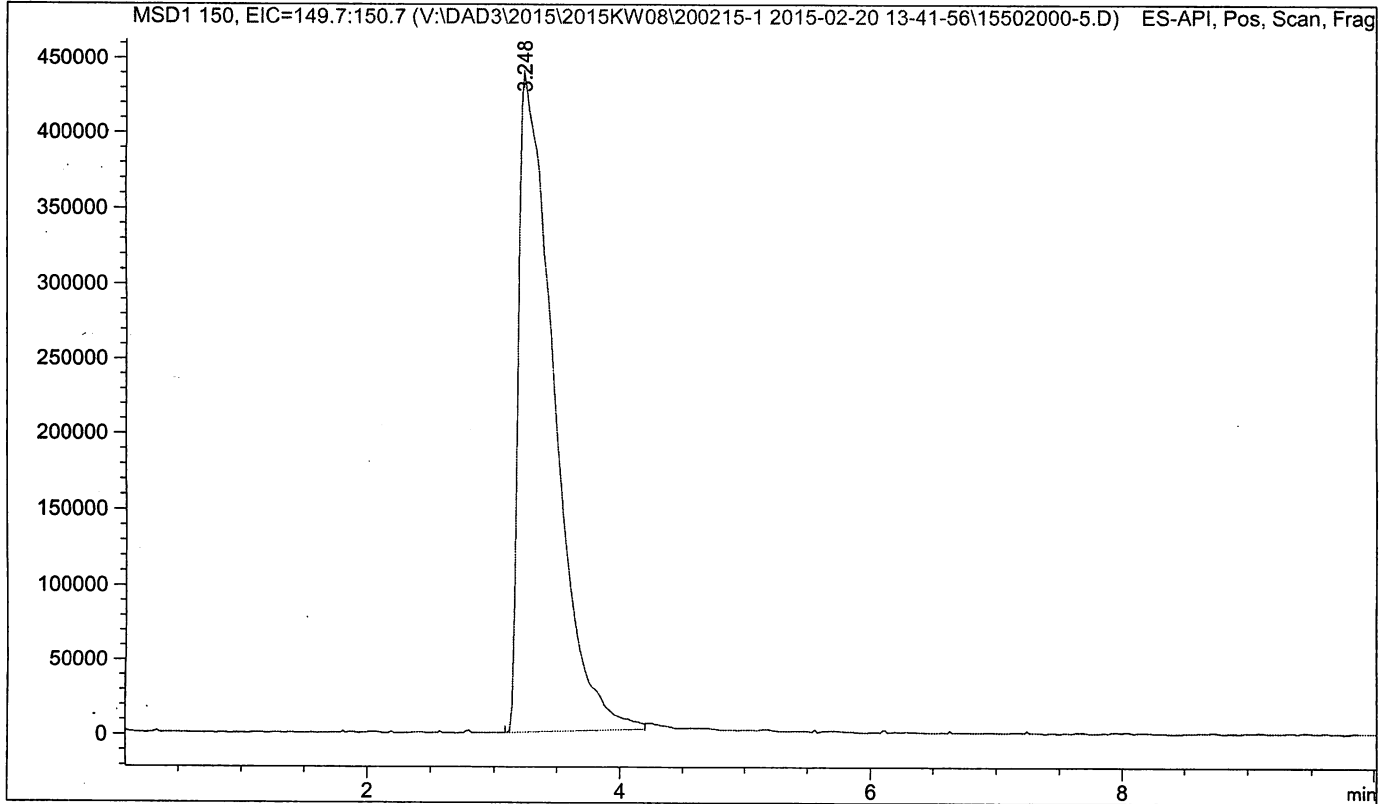
=====
Acq. Operator   : DAD3_Admin                      Seq. Line :   54
Acq. Instrument : DAD3                          Location  : Vial 82
Injection Date  : 21.02.2015 18:23:50           Inj       :    1
                                                    Inj Volume: 10.000 µl
Different Inj Volume from Sequence !      Actual Inj Volume : 5.000 µl
Acq. Method     : C:\CHEM32\1\DATA\2015KW08\200215-1 2015-02-20 13-41-56\11MS.M
Last changed    : 30.07.2012 11:49:03 by DAD3
Analysis Method : V:\DAD3\METHODS\11MS.M
Last changed    : 30.07.2012 11:49:03 by DAD3
Method Info     : Acetonitrile : Water +0.15% Formic Acid 1:1

Sample Info     : Nereistoxin oxalate

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26,156

Additional Info : Peak(s) manually integrated



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: MSD1 150, EIC=149.7:150.7

Peak #	RetTime [min]	Sig	Type	Area	Height	Area %
1	3.248	1	BV	8.49758e6	4.39086e5	100.0000

Totals : 8.49758e6 4.39086e5