

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

10001000 Abamectin

CA (10E,14E,16E,22Z)-(1R,4S,5'S,6S,6'R,8R,12S,13S,20R,21R,24S)-6'[(S)-secbutyl]-21,24-

IUPAC (10E,14E,16E,22Z)-(1R,4S,5'S,6S,6'R,8R,12S,13S,20R,21R,24S)-6'[(S)-secbutyl]-21,24-

Formula

Mol.Weight

CAS No. 71751-41-2


Reference Materials for
Residue Analysis

Expiry Date 17.12.2013

Lot Number 21205

Store at -18 °C ±4 °C

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

Toxicological Data	Physical Data
 R Code 20-28-50 S Code 36/37/39-45-60-61 LD50 (Rats female/male in mg/kg) 1,5	Phase crystalline solid Color colourless Melt.Range dec.155.4 °C Vapour pressure <200nPa at °C Solubility in water N/A g/l at °C Boiling Range (lit.)
Analytical Data Detection: HPLC/DAD Column: ReproSil 100 C18 5µ 250x3 Inj.-Vol.: 10.00 µl Flow: 0.5 ml/min Ret.-Time:	Method Details: Acetonitrile:H2O 9:1
Identity: UV, RT Comment Purity was confirmed by external standard method. Mixture of isomeres, RT 4.32: B1a (95.5 %); RT3,62 B1b (3.4%). The appearance of further isomeres is possible. Short expiry, for immediate use only.	
Water Content 1,8 % Det. Purity 95,0 %	Determined by Karl-Fischer Titration Tolerance/Uncertainty +/- 1,0 % <p>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.</p>

Certified on 17.12.2012

by A. Storr



REG.NO.: 2074-01

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.

Labor Dr. Ehrenstorfer-Schäfers · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany
Phone +49 821 906080 Fax +49 821 9060888 info@analytical-standards.com
The warranty for this product is limited to the purchasing price of this product.



DGA-PL-4536.00

Sample Name: 21212AL 21205

2.12.12

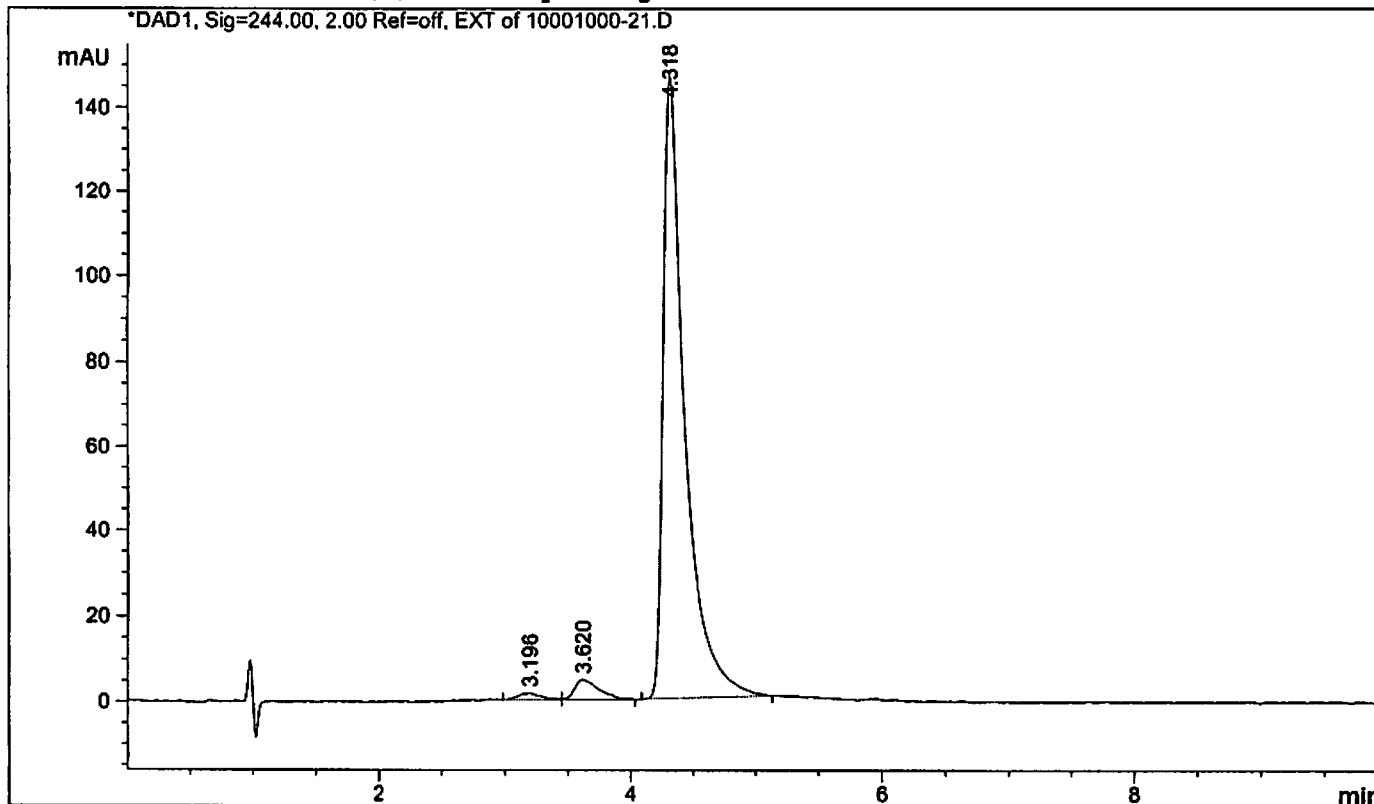
```

=====
Acq. Operator   : DAD1                      Seq. Line :   30
Acq. Instrument : DAD1                      Location  : Vial 7
Injection Date  : 13.12.2012 22:56:12      Inj       :    1
                                           Inj Volume: 10.000 µl

Acq. Method     : D:\CHEM32\1\METHODS\91K_10MIN.M
Last changed    : 27.04.2012 11:01:50
Analysis Method : V:\DAD1\METHODS\91K_10MIN.M
Last changed    : 14.12.2012 10:34:58
                  (modified after loading)
Method Info     : Acetonitrile : Water 9 :1

Sample Info     : Abamectin
  
```

Additional Info : Peak(s) manually integrated



```

=====
                          Area Percent Report
=====
  
```

```

Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

```

Signal 1: DAD1, Sig=244.00, 2.00 Ref=off, EXT
Signal has been modified after loading from rawdata file!
  
```

Peak #	RetTime [min]	Sig	Type	Area [mAU*s]	Height [mAU]	Area %
1	3.196	1	BV	19.31946	1.56165	1.0590
2	3.620	1	VB	62.70169	4.68637	3.4371
3	4.318	1	BB	1742.21667	146.15562	95.5038

```
Totals :                1824.23782  152.40364
```