

# Certificate of Analysis

Dr. Ehrenstorfer

## Reference Materials for Residue Analysis

### Product Identification

10010300 Acepromazine maleate salt

CA Ethanone, 1-[10-[3-(dimethylamino)propyl]-10H-phenothiazin-2-yl]-, (2Z)-2-butenedioate (1:1)

IUPAC 2-Acetyl-10-(3-dimethylaminopropyl)phenothiazine maleate salt

Formula C<sub>19</sub>H<sub>22</sub>N<sub>2</sub>O<sub>5</sub> · C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

Mol.Weight 442.53

CAS No. 3598-37-6

Expiry Date 12.09.2020

Lot Number 105032

Store at 20 °C ±4 °C

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

### Toxicological Data



R Code 20/22

S Code 36

LD50 (Rats female/male in mg/kg) 400

### Physical Data

Phase crystalline solid

Color yellowish

Melt.Range 134,7 °C

Vapour pressure N/A at °C

Solubility in water 37 g/l at 20 °C

Boiling Range (lit.)

### Analytical Data

Detection: HPLC/DAD

Column: ReproSil 100 C18 5µ 250x3

Inj.-Vol.: 10.00 µl

Flow: 1.0 ml/min

Ret.-Time:

Method Details:

Acetonitrile:H<sub>2</sub>O+0,5% H<sub>3</sub>PO<sub>4</sub> 2:1

Identity: IR, UV, RT, NMR

Comment Purity was determined by QNMR

Acepromazine: RT 2.40 min

Maleate: RT 0.83 min

Water Content 0.2 % Determined by Karl-Fischer Titration

Det. Purity 98.0 % 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  $U_c(y) \cdot K$ , 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 12.09.2016

by M. Beck

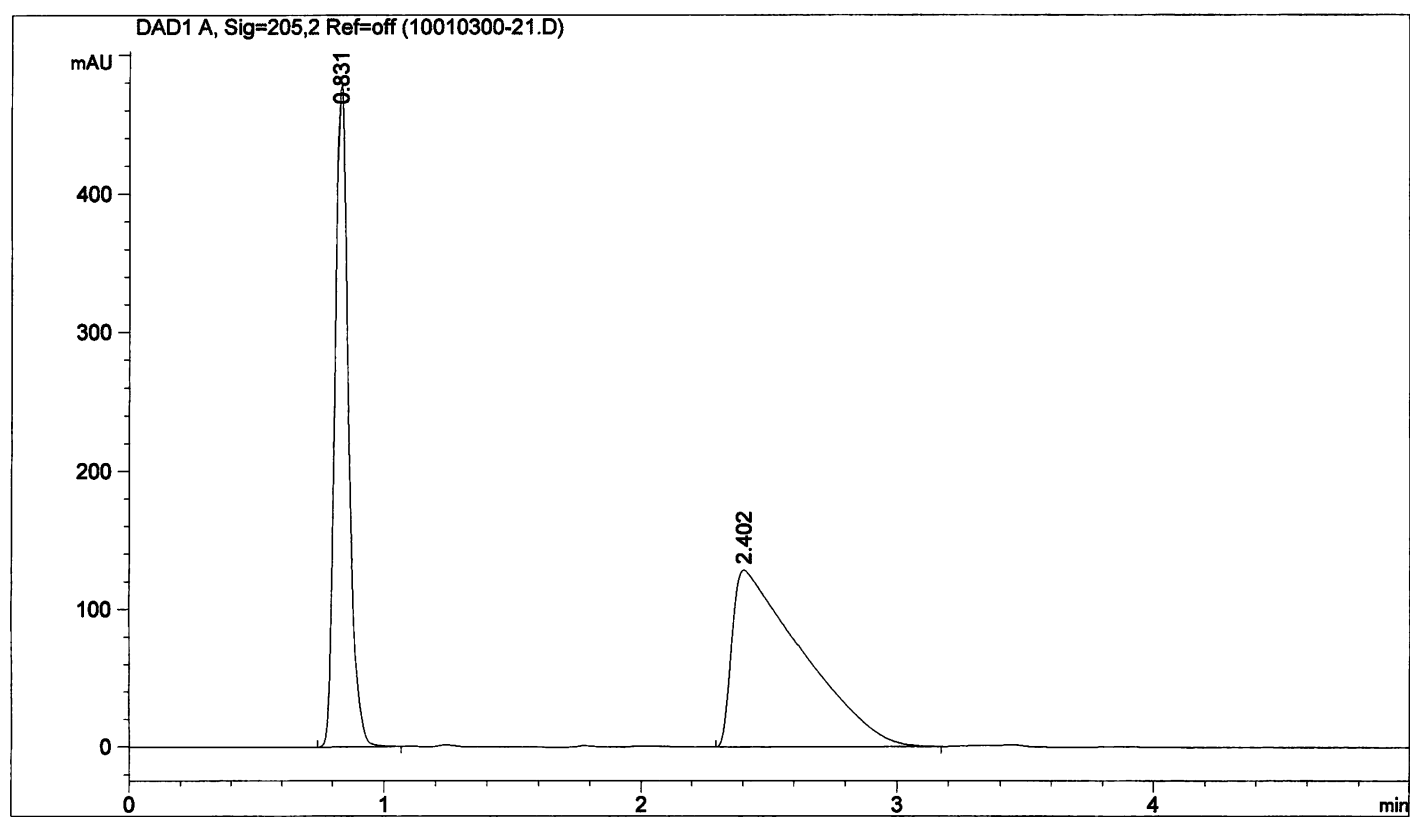
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

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|                 |                                                                                    |            |             |
|-----------------|------------------------------------------------------------------------------------|------------|-------------|
| Acq. Operator   | : DAD3_Admin                                                                       | Seq. Line  | : 2         |
| Acq. Instrument | : DAD3                                                                             | Location   | : Vial 24   |
| Injection Date  | : 11.05.2016 09:50:48                                                              | Inj        | : 1         |
|                 |                                                                                    | Inj Volume | : 10.000 µl |
| Sequence File   | : C:\Chem32\1\DATA\2016KW19\110516-1 2016-05-11 09-38-27\110516-1.S                |            |             |
| Method          | : C:\CHEM32\1\DATA\2016KW19\110516-1 2016-05-11 09-38-27\21PK.M ( Sequence Method) |            |             |
| Last changed    | : 10.11.2015 08:30:50 by DAD3_Admin                                                |            |             |
| Method Info     | : Acetonitrile : Water 2:1 + 0.5% H3PO4                                            |            |             |
| Sample Info     | : Acepromazine maleate salt                                                        |            |             |

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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      | 0.831         | 1   | BB   | 1727.50659   | 482.10794    | 41.2143 |
| 2      | 2.402         | 1   | BB   | 2464.01221   | 128.28607    | 58.7857 |

Totals : 4191.51880 610.39401

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\*\*\* End of Report \*\*\*