

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

11668561 ($\pm$)-Clenbuterol D9 (trimethyl D9)

CA Benzenemethanol, 4-amino-3,5-dichloro-alpha-[[[(1,1-di(methyl-D3)ethyl-2,2,2-D3)amino]methyl]-

IUPAC 1-4-Amino-3,5-dichlorophenyl-2-tert-butylamino D9-ethanol

Formula C₁₂H₉D₉Cl₂N₂O

Mol.Weight 286.12

CAS No. 129138-58-5

Reference Materials for Residue Analysis

Expiry Date 13.01.2019

Lot Number 93325

Store at 20 °C $\pm$ 4 °C

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

Toxicological Data



R Code 36/37/38

S Code 22-25-36

LD50 (Rats female/male in mg/kg) N/A

Physical Data

Phase crystalline solid

Color colourless

Melt.Range 121,3 °C

Vapour pressure N/A at °C

Solubility in water N/A g/l at °C

Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Column: ReproSil 100 C18 5 μ 250x3

Inj.-Vol.: 10.00 μ l

Flow: 1.0 ml/min

Ret.-Time: 2.32 min.

Method Details:

Acetonitrile:H₂O+0,5% H₃PO₄ 4:1

Identity: UV, RT, MS

Comment Isotopic purity: 99.7% (94% D9, 5.7% D8, 0.3% D7)

Chemical purity: 98.5%

Purity was confirmed by external standard method.

Water Content 1.0 % Determined by Karl-Fischer Titration

Det. Purity 98.2 % Tolerance/Uncertainty $\pm$ 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 $U_c(y) \cdot K$, 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 13.01.2016

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.

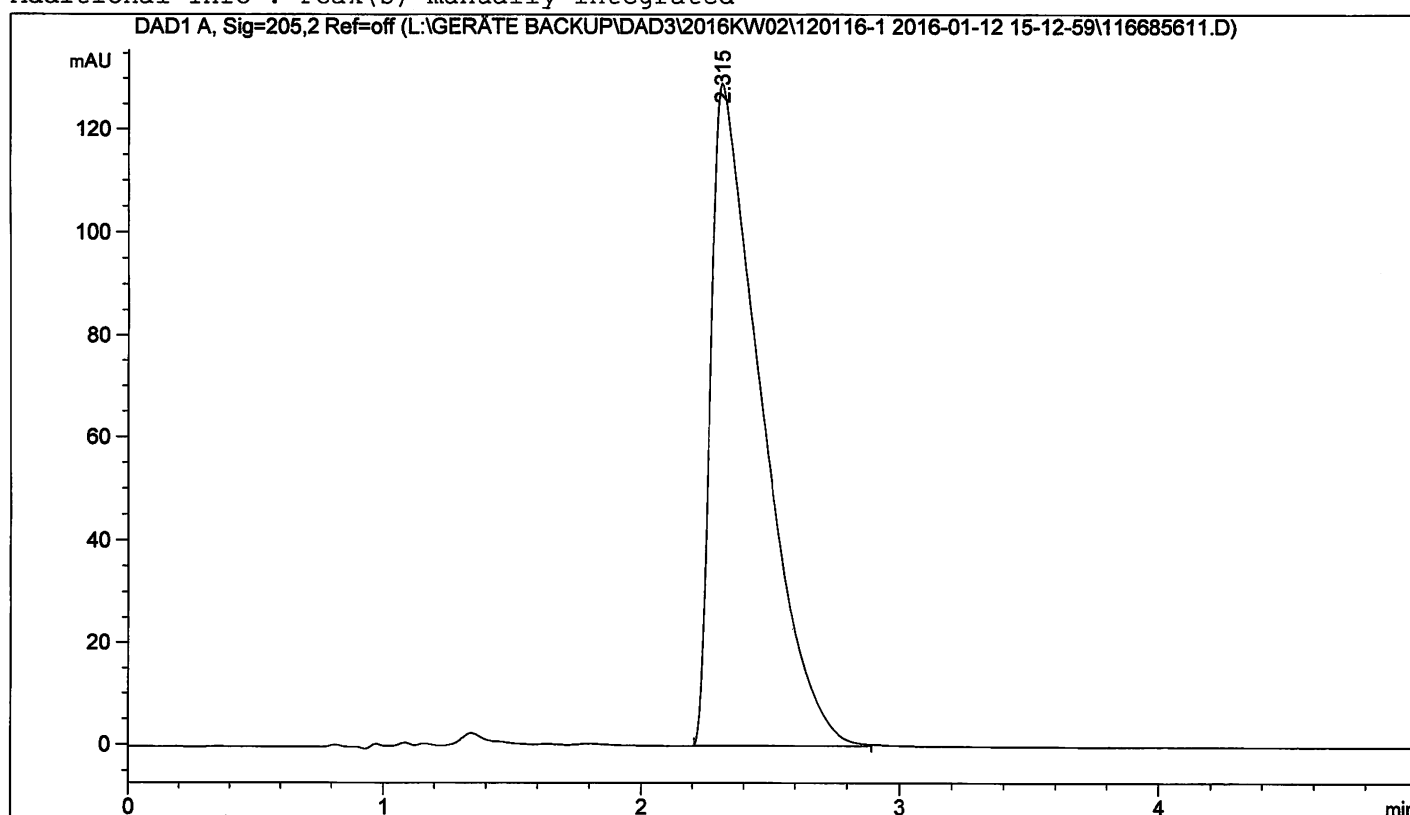
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The warranty for this product is limited to the purchasing price of this product.

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Acq. Operator	: DAD3_Admin	Seq. Line	: 17
Acq. Instrument	: DAD3	Location	: Vial 79
Injection Date	: 12.01.2016 18:00:33	Inj	: 1
		Inj Volume	: 10.000 µl
Different Inj Volume from Sequence !		Actual Inj Volume	: 3.000 µl
Acq. Method	: C:\CHEM32\1\DATA\2016KW02\120116-1 2016-01-12 15-12-59\41PK.M		
Last changed	: 10.11.2015 09:18:37 by DAD3_Admin		
Analysis Method	: L:\GERÄTE BACKUP\DAD3\METHODS\41PK.M		
Last changed	: 10.11.2015 09:18:37 by DAD3_Admin		
Method Info	: Acetonitrile Water 4:1 + 0.5 % H3PO4		
Sample Info	: (±)-Clenbuterol D9 (trimethyl D9)		

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Additional Info : Peak(s) manually integrated



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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	2.315	1	BB	1750.14185	129.36288	100.0000

Totals : 1750.14185 129.36288