

Certificate of Analysis

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683379 Lot: 828274

Tylosin tartrate

1. General Information

Formula C50H83NO23 Expiry Date 01 Nov 2028

Mol. Weight 1066.19 g/mol Store at 4°C (in the dark)

CAS-No. 74610-55-2

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 96.48 % (g/g) Expanded Uncertainty 0.52 % (g/g)

Assay Purity (HPLC) 96.48 % (g/g) Uncertainty 0.26 % (g/g)

Certified on 17 Oct 2024

by Jacqueline Seidel RM Release

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainties are determined in accordance with ISO 17034 with a 95% confidence level (k=2). The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use. The indicated long-term storage temperature can vary in a range of \pm 4 °C.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).

HPC Standards GmbH produces reference materials according to ISO 17034. For further information, check:



HPLC-Method

HPC Standards GmbH

Article 683379 Lot-No. 828274

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

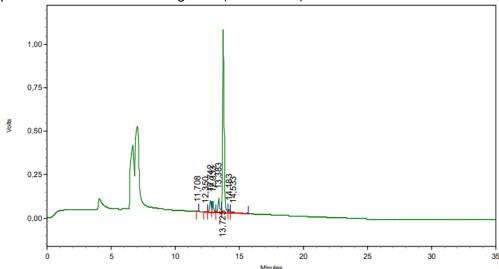
 22.5min
 90
 10

 25min
 90
 10

Flow 1.0 ml min-1 Detector UV-280nm

Injection-Volume 5 µl

Sample 2.0 mg ml-1 (Acetonitrile)



Detector A - 1	(280nm)
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Retention Time	Height	Area	Area Percent
11,708	2359	14628	0,13
12,350	1248	15130	0,13
12,742	68306	522737	4,50 Tylosin C
12,933	63066	452369	3,90 Tylosin B
13,383	84363	655853	5,65 Tylosin D
13,725	1055396	9584333	82,56 Tylosin A
14,183	20397	138562	1,19
14,533	8536	224792	1,94

Totals			
	1303671	11608404	100,00

Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	683379	828274	Initial Version	17 Oct 2024