

683379**Lot: 835080****Tylosin tartrate**1. General Information

Formula	C50H83NO23	Expiry Date	01 Oct 2029
Mol. Weight	1066.19 g/mol	Store at	4°C (in the dark)
CAS-No.	74610-55-2	Format	Neat

2. Batch Analysis

Identity	confirmed by LC-MS		
Overall Purity	91.66 % (g/g)	Expanded Uncertainty	0.99 % (g/g)
Assay Purity (HPLC)	96.53 % (g/g)	Uncertainty	0.23 % (g/g)
Water	5.05 % (g/g)		

Certified on 22 Sep 2025

by Jacqueline Seidel
RM Release

The overall purity is calculated by: $\text{Purity(\%)} = \text{Assay purity} \cdot (100 - \text{water content} - \text{impurities}) / 100$
For non-specified hydrates, the overall purity refers to the stated molecular formula.

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 ± 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:

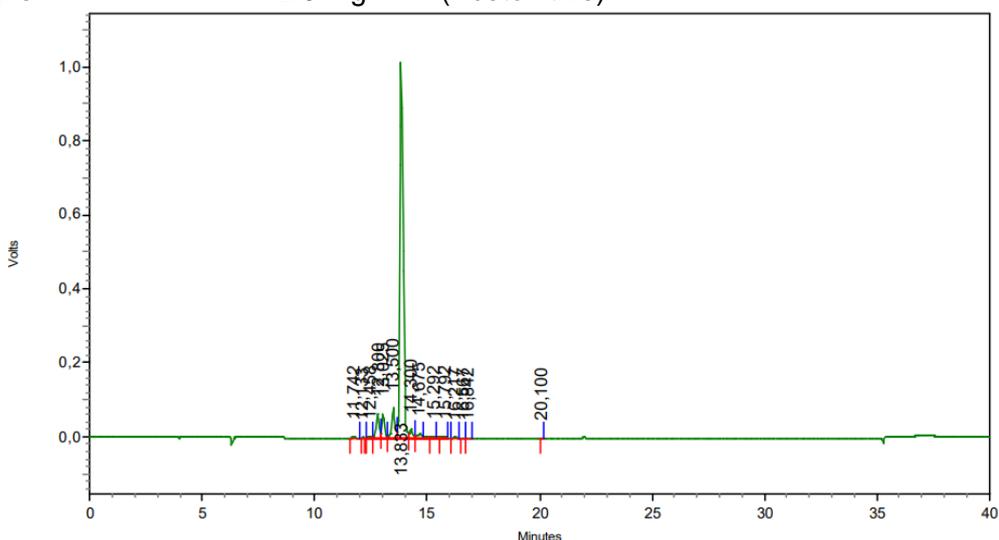


HPLC-Method

Article 683379
 Lot-No. 835080
 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 5µl
 Sample 2.0 mg ml⁻¹ (Acetonitrile)



Detector A - 1 (280nm)

Retention Time	Height	Area	Area Percent
11,742	2580	19254	0,14
12,133	409	2469	0,02
12,458	1683	17788	0,13
12,800	64712	532107	3,75 Tylosin C
13,025	65678	496076	3,50 Tylosin B
13,500	80238	707176	4,99 Tylosin D
13,833	1015444	11962458	84,40 Tylosin A
14,300	23600	190791	1,35
14,675	11677	144431	1,02
15,292	4664	56053	0,40
15,792	3137	34224	0,24
16,217	966	7292	0,05
16,567	127	704	0,00
16,842	289	2473	0,02
20,100	230	955	0,01

Totals	Height	Area	Area Percent
	1275434	14174251	100,00

Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	683379	835080	Initial Version	22 Sep 2025