

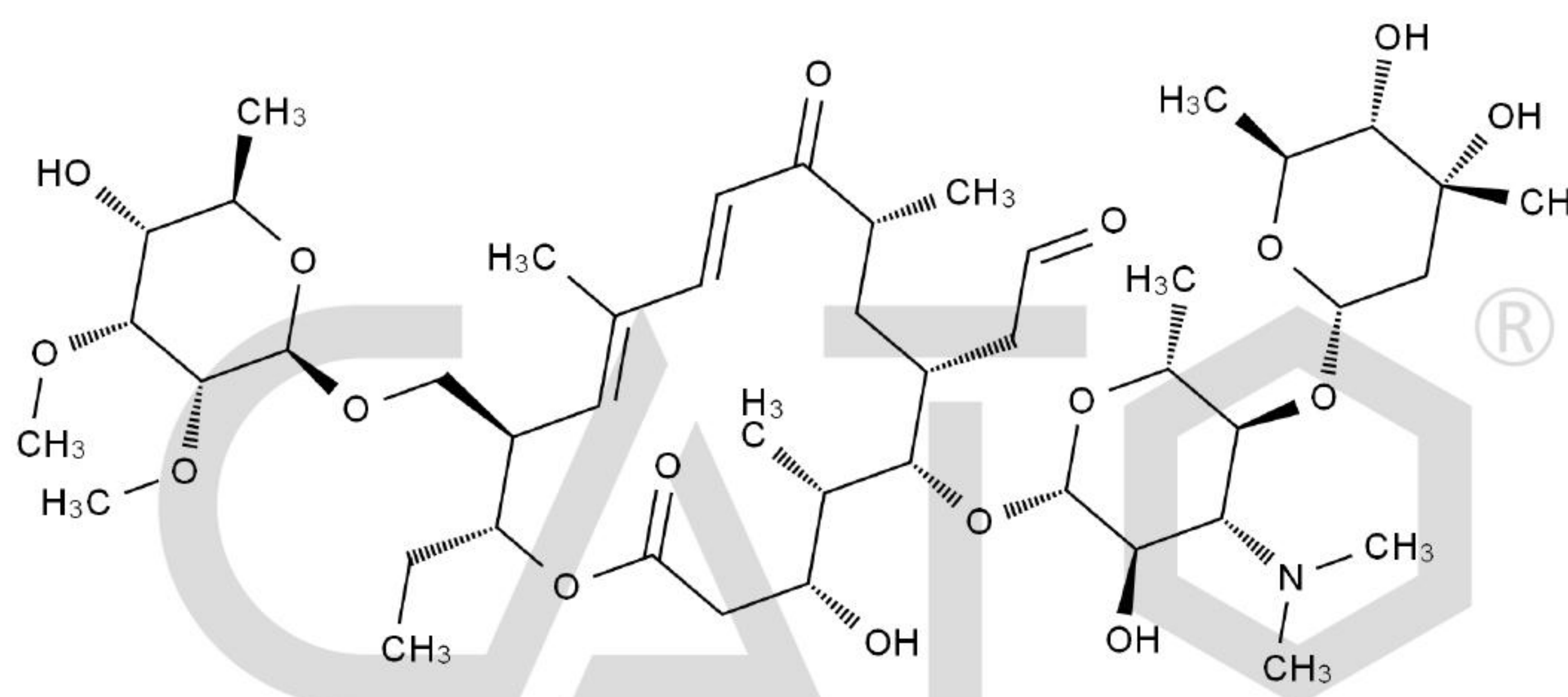
Certificate of Analysis

Reference Material & Standard

Product Name:	Tylosin	Catalogue Number:	CCPD101561
Synonyms:	N/A	Lot Number:	0507-RH-0058
CAS Number:	1401-69-0	Expiry Date:	May 14, 2030
Molecular Formula:	C ₄₆ H ₇₇ NO ₁₇	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	916.10	Shipping Condition:	Shipping at Room Temperature
Solubility:	Methanol	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.128%(Tylosins A: 94.149%)
Loss on Drying	TGA	0.5203%
Assay		97.6%
Uncertainty		±0.4%

Comment:

- Mixture of Tylosins A, B, C and D, Tylosins A>80%.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.
- The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

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Approved by General Manager:

David

Date: May 15, 2026

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