

Certificate of Analysis

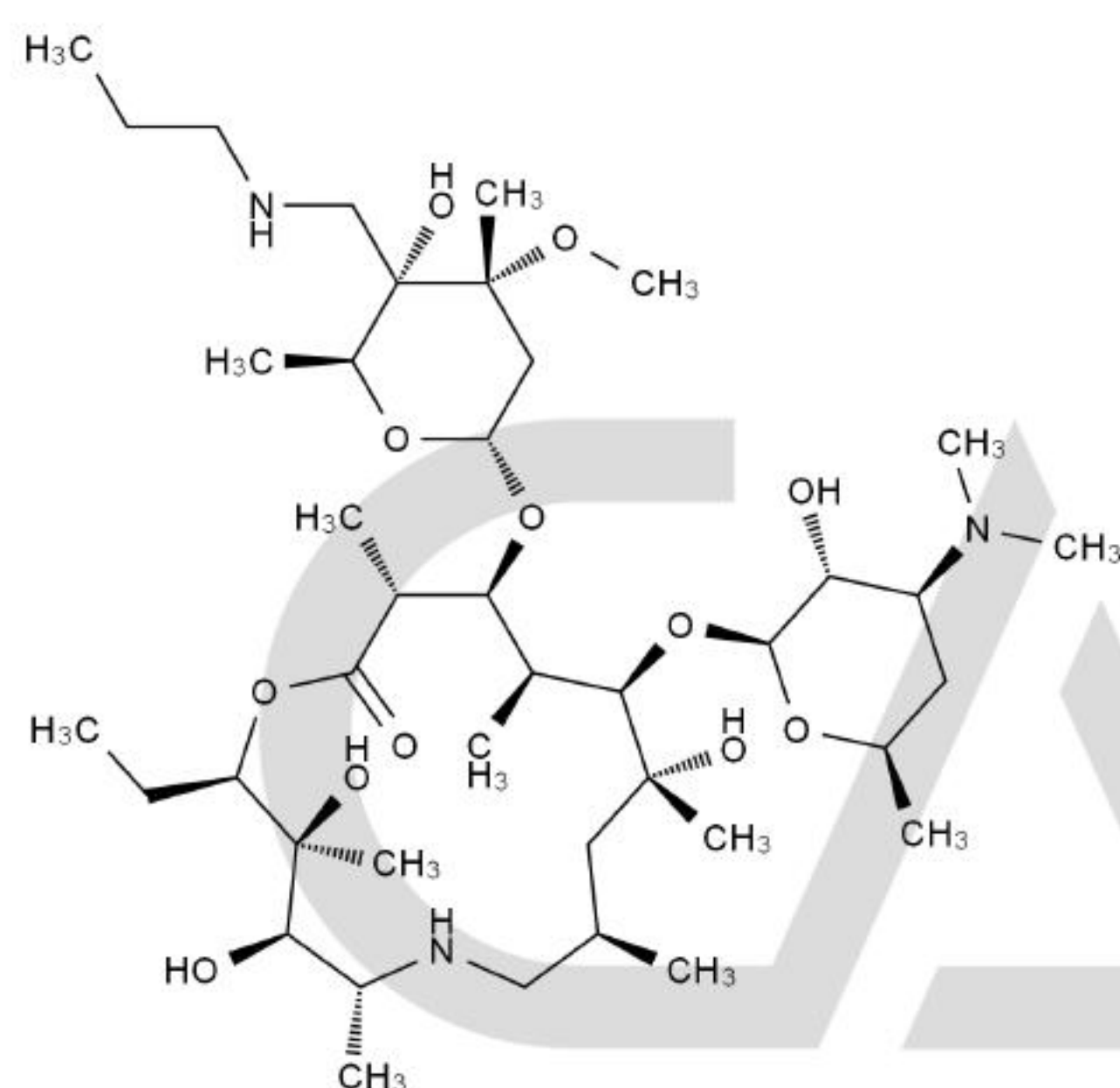
Reference Material & Standard

Product Name:	Tulathromycin A	Catalogue Number:	CCAD300949
Synonyms:	N/A	Lot Number:	0718-RF-0084
CAS Number:	217500-96-4	Expiry Date:	Jul 17, 2028
Molecular Formula:	C ₄₁ H ₇₉ N ₃ O ₁₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	806.08	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.0%
Assay	qNMR	98.7%
Uncertainty		±2.0%

Comment:

1. Assay was determined by quantitative ¹H-NMR.
2. 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:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 18, 2024

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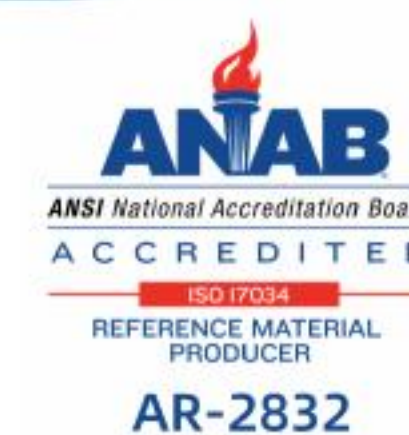
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