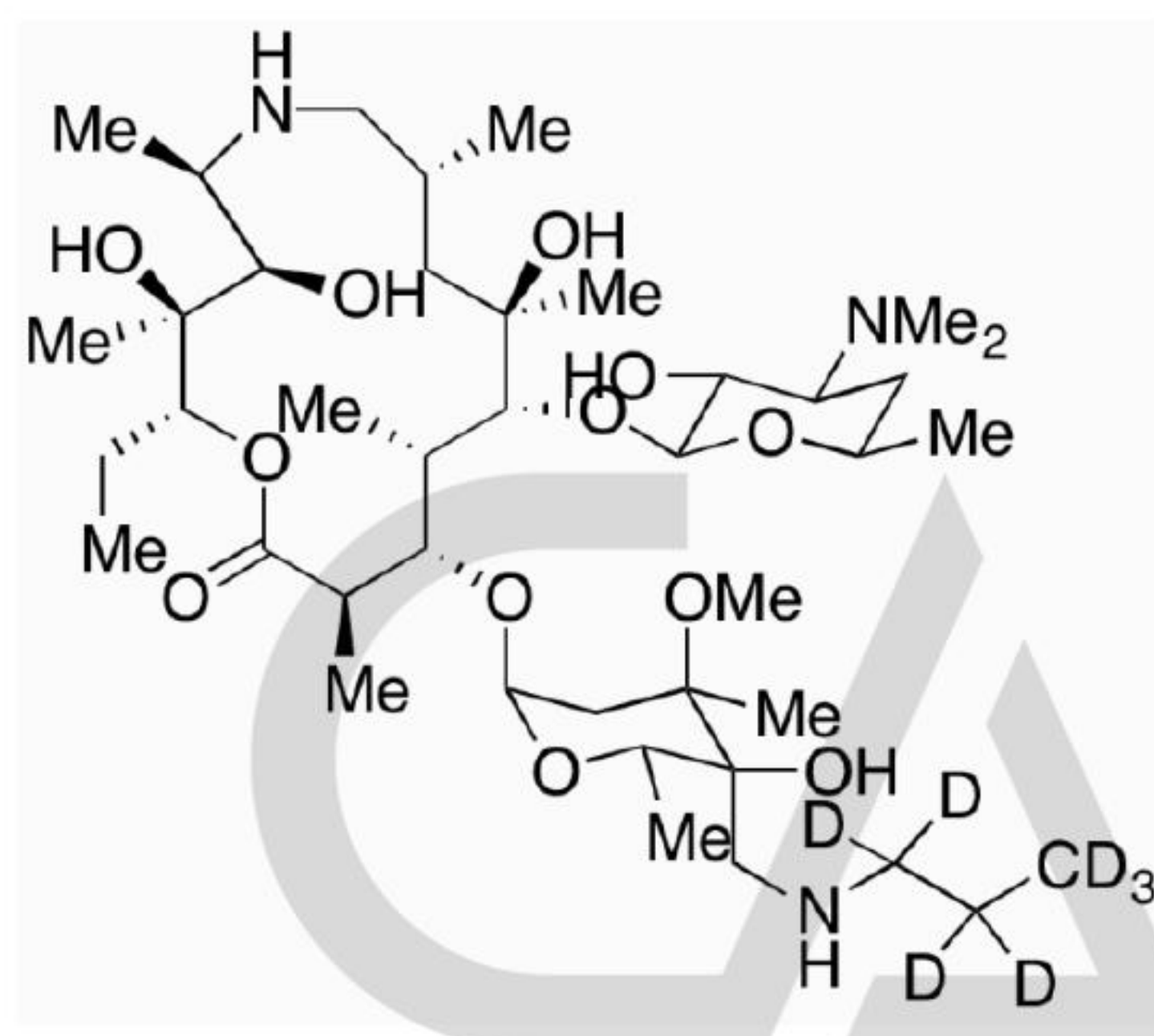


Certificate of Analysis

Reference Material & Standard

Product Name:	Tulathromycin A-d7	Catalogue Number:	CCAD302591
Synonyms:	N/A	Lot Number:	0425-RE-0064
CAS Number:	2734920-62-6	Expiry Date:	Sep 22, 2025
Molecular Formula:	C ₄₁ H ₇₂ D ₇ N ₃ O ₁₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	813.12	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	95.0%
Isotopic Purity		98.27%
Uncertainty		±2.0%

Comment:

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:

Lisa

Reviewed by:

Xenia

Approved by General Manager:

David

Date: Sep 23, 2021

Date: May 04, 2023

Date: May 04, 2023



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