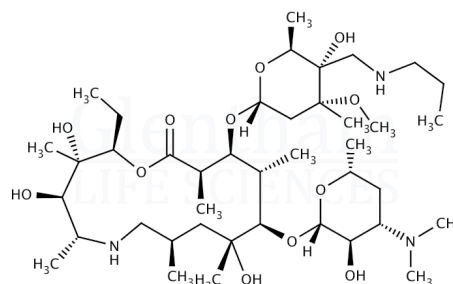


Certificate of Analysis

Product Name	Tulathromycin A
Glentham Code	GA3247
CAS Number	217500-96-4
PubChem SID	310281499
Batch Number	093MOX
Molecular Weight	806.08
Molecular Formula	$C_{41}H_{79}N_3O_{12}$
Storage Temp.	+4°C



Property	Specification	Batch 093MOX
Physical Description	White to off-white powder	White powder
Identification (IR)	To conform to standard	Conforms
Solubility (2% in methanol)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation ($[\alpha]_{20/D}$)	-26.0 - -22.0 ° (c=0.4, acetonitrile)	Conforms
Water	≤ 0.5%	0.06%
Assay	≥ 95.0%	98.4%

Specification Version	v1.2
Manufacture Date	2019-09-29
Re-Test Date	2028-01-24

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2024