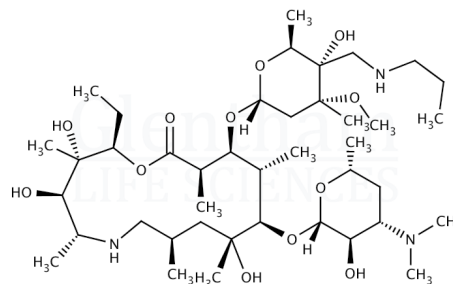


Certificate of Analysis

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.

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