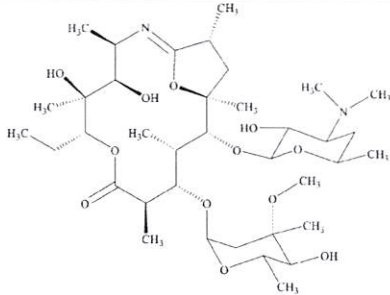


**Certificate of Analysis**



Certificate No.: 20250110014

Date: January 10, 2025

Retest date: January 9, 2028

<b>Compound Name:</b>	<b>Erythromycin A (6,9-Imino Ether)</b>	
<b>Synonyms:</b>	(3R,4R,5S,6R,9R,10S,11S,12R,15R,Z)-12-(((2S,3R,4S,6R)-4-(dimethylamino)-3-hydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-6-ethyl-4,5-dihydroxy-10-(((2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2H-pyran-2-yl)oxy)-3,5,9,11,13,15-hexamethyl-7,16-dioxo-2-azabicyclo[11.2.1]hexadec-1-en-8-one	
<b>TLC Catalogue Number:</b>	E-207	
<b>CAS Number:</b>	99290-97-8	
<b>Molecular Weight:</b>	730.94	
<b>Molecular Formula:</b>	C <sub>37</sub> H <sub>66</sub> N <sub>2</sub> O <sub>12</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	3752-023A2	
<b>Storage Conditions:</b>	Hygroscopic, store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO	

Test Description	Specifications	Results
<b>Visual Description</b>	White to off-white solid	<b>Conforms</b>
<b>Identification</b>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.6%</b>
<b>Impurity (HPLC)</b>	RT 7.42, 0.15%; RT 8.79, 0.25%	
<b>Water Content (KF)</b>	N/A	<b>3.0%</b>
<b>Optical Rotation</b>	N/A	$[\alpha]_D^{20.0}$ (c=0.32, CHCl <sub>3</sub> ): <b>-68.1°</b>
<b>Residual Solvents (NMR)</b>	0.6% dichloromethane and 0.3% diethyl ether	
<b>Assay (%)</b>	Not less than 90.0%	<b>95.7%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01/10/2025
Approved by:	Quality Assurance		01/10/2025

**Attachments:** Peak Attribution Table, HPLC, IR, MS and NMR spectra.