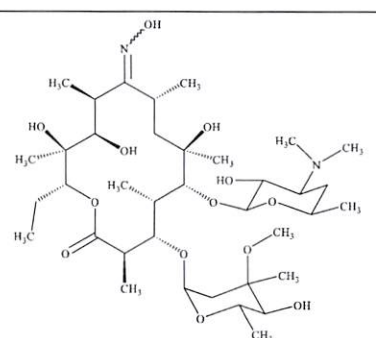


## Certificate of Analysis

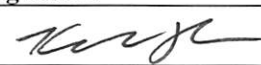

Certificate No.: 20251203508

Date: December 3, 2025

Retest date: December 2, 2028

<b>Compound Name:</b>	<b>Erythromycin A 9-Oxime (Mixture of Z and E Isomers)</b>	
<b>Synonyms:</b>	(3R,4S,5S,6R,7R,9R,11S,12R,13S,14R)-6-(((2S,3R,4S,6R)-4-(dimethylamino)-3-hydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-14-ethyl-7,12,13-trihydroxy-4-(((2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2H-pyran-2-yl)oxy)-10-(hydroxyimino)-3,5,7,9,11,13-hexamethylloxacyclotetradecan-2-one	
<b>TLC Catalogue Number:</b>	E-2021	
<b>CAS Number:</b>	13127-18-9	
<b>Alternate CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	748.95	
<b>Molecular Formula:</b>	C <sub>37</sub> H <sub>68</sub> N <sub>2</sub> O <sub>13</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	2851-043A3	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO, Water	

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>99.9%</b>
<b>Impurity (HPLC)</b>	N/A	
<b>Water Content (KF)</b>	N/A	<b>4.1%</b>
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (%)</b>	Not less than 90.0%	<b>95.8%</b>
<b>Recommendation:</b>	<b>Release.</b> The compound contains 50.3% Erythromycin A 9-Oxime (Z-Isomer) (RT 6.53, TLC No. E-2027) and 49.6% Roxithromycin EP Impurity C (Erythromycin A 9-Oxime (E-Isomer)) (RT 7.37, TLC No. R-745) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		12/03/2025
Approved by:	Quality Assurance		12/03/2025

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