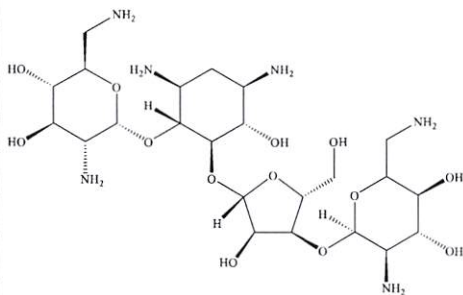


## Certificate of Analysis


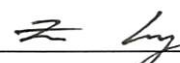
Certificate No.: 20251118007

Date: November 18, 2025

Retest date: November 11, 2028

<b>Compound Name:</b>	<b>Neomycin</b>	
<b>Synonyms:</b>	(3S,4R,5R,6R)-5-amino-2-(aminomethyl)-6-(((2R,3S,4R,5S)-5-(((1R,2R,3S,5R,6S)-3,5-diamino-2-(((2R,3R,4R,5S,6R)-3-amino-6-(aminomethyl)-4,5-dihydroxytetrahydro-2H-pyran-2-yl)oxy)-6-hydroxycyclohexyl)oxy)-4-hydroxy-2-(hydroxymethyl)tetrahydrofuran-3-yl)oxy)tetrahydro-2H-pyran-3,4-diol	
<b>TLC Catalogue Number:</b>	N-080001	
<b>CAS Number:</b>	1404-04-2	
<b>Alternate CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	614.65	
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>46</sub> N <sub>6</sub> O <sub>13</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	7100-056A2	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Water	

Test Description	Specifications	Results
<b>Visual Description</b>	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>97.7%</b>
<b>Impurity (HPLC)</b>	RT 3.52, 0.69%; RT 5.00, 1.47%	
<b>Residue (TGA at 900 °C)</b>	N/A	<b>0.0%</b>
<b>Residual Solvents (NMR)</b>	0.5% acetonitrile	
<b>Assay (qNMR)</b>	Not less than 85.0%	<b>86.4%</b>
<b>Recommendation:</b>	<b>Release.</b> The compound contains 77.9% Neomycin B (Framycetin) (RT 7.11, TLC No. N-080022) and 19.8% Neomycin EP Impurity C (Neomycin C) (RT 7.62, TLC No. N-080016) according to its HPLC.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		11/18/2025
Approved by:	Quality Assurance		11/18/2025

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