

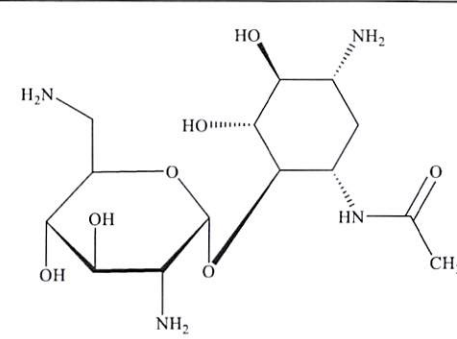
## Certificate of Analysis

Certificate No.: 20250328503



Date: March 28, 2025

Retest date: March 27, 2028

<b>Compound Name:</b> Neomycin Sulfate EP Impurity B (3-Acetylneamine)	
<b>Synonyms:</b>	N-((1S,2R,3R,4S,5R)-5-amino-2-(((2R,3R,4R,5S,6R)-3-amino-6-(aminomethyl)-4,5-dihydroxytetrahydro-2H-pyran-2-yl)oxy)-3,4-dihydroxycyclohexyl)acetamide
<b>TLC Catalogue Number:</b>	N-080004
<b>CAS Number:</b>	54617-39-9
<b>Alternate CAS Number:</b>	N/A
<b>Molecular Weight:</b>	364.40
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>28</sub> N <sub>4</sub> O <sub>7</sub>
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	C0070-081A4
<b>Storage Conditions:</b>	Hygroscopic, store at 2-8 °C
<b>Solubility:</b>	Water, 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>100.0%</b>
<b>Impurity (HPLC)</b>	N/A	
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>22.0</sup> (c=1.00, H <sub>2</sub> O): +70.1°	[α] <sub>D</sub> <sup>22.0</sup> (c=0.26, H <sub>2</sub> O): +70.5°
<b>Residual Solvents (NMR)</b>	0.4% acetic acid	
<b>Assay (qNMR)</b>	Not less than 85.0%	<b>87.2%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		03/28/2025
Approved by:	Quality Assurance		03/28/2025

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