

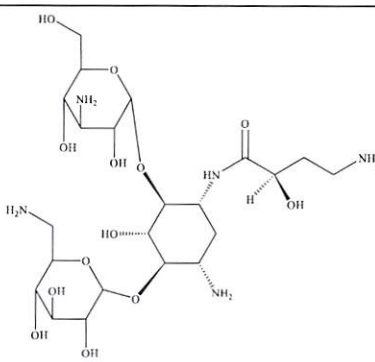
## Certificate of Analysis

Certificate No.: **20250526513**

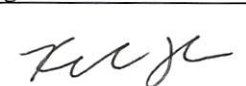

Date: May 26, 2025

Retest date: May 2, 2028

<b>Compound Name:</b> Amikacin EP Impurity G	
<b>Synonyms:</b>	6-O-(3-amino-3-deoxy- $\alpha$ -D-glucopyranosyl)-4-O-(6-amino-6-deoxy- $\alpha$ -D-glucopyranosyl)-1-N-[(2R)-4-amino-2-hydroxybutanoyl]-2-deoxy-D-streptamine
<b>TLC Catalogue Number:</b>	A-144026
<b>CAS Number:</b>	50896-99-6
<b>Alternate CAS Number:</b>	N/A
<b>Molecular Weight:</b>	585.61
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>43</sub> N <sub>5</sub> O <sub>13</sub>
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	C0218-084A2
<b>Storage Conditions:</b>	Hygroscopic, store at 2-8 °C
<b>Solubility:</b>	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>99.8%</b>
<b>Impurity (HPLC)</b>	RT 5.13, 0.11%	
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (qNMR)</b>	Not less than 80.0%	<b>83.6%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		05/26/2025
Approved by:	Quality Assurance		05/26/2025

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