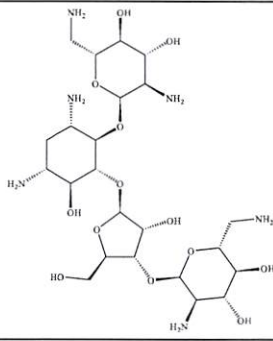


Certificate of Analysis



Certificate No.: **20260402021**

Date: April 2, 2026

Retest date: March 31, 2029

Compound Name:	Neomycin EP Impurity C (Neomycin C)	
Synonyms:	(2R,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	
TLC Catalogue Number:	N-080016	
CAS Number:	66-86-4	
Alternate CAS Number:	N/A	
Molecular Weight:	614.65	
Molecular Formula:	C ₂₃ H ₄₆ N ₆ O ₁₃	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	C0035-065B2	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, Water	

Test Description	Specifications	Results
Visual Description	Off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	100.0%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	9.0%
Residue (TGA at 800 °C)	N/A	0.4%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.34, 0.01N H ₂ SO ₄ (aq)): +90.3°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 85.0%	90.6%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		04/02/2026
Approved by:	Quality Assurance		04/02/2026

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