

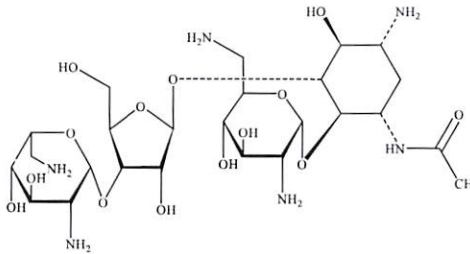
Certificate of Analysis

Certificate No.: **20250402508**



Date: April 2, 2025

Retest date: March 25, 2028

Compound Name: Neomycin Sulfate EP Impurity G	
Synonyms:	3- <i>N</i> -acetyl-2-deoxy-4- <i>O</i> -(2,6-diamino-2,6-dideoxy- α -D-glucopyranosyl)-5- <i>O</i> -[3- <i>O</i> -(2,6-diamino-2,6-dideoxy- β -L-idopyranosyl)- β -D-ribofuranosyl]-D-streptamine
TLC Catalogue Number:	N-080008
CAS Number:	54617-40-2
Alternate CAS Number:	N/A
Molecular Weight:	656.69
Molecular Formula:	C ₂₅ H ₄₈ N ₆ O ₁₄
Source:	TLC Pharmaceutical Standards
Source Lot No.:	C0223-019A2
Storage Conditions:	Hygroscopic, store at 2-8 °C
Solubility:	Water



Test Description	Specifications	Results
Visual Description	White to 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%	99.9%
Impurity (HPLC)	N/A	
Residual Solvents (NMR)	0.3% acetone	
Assay (qNMR)	Not less than 90.0%	92.8%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		04/02/2025
Approved by:	Quality Assurance		04/02/2025

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