



Certificate of Analysis

Gentamicin Sulfate USP

Catalog Number: GS1007
Lot Number: 0213803
CAS Number: 1405-41-0
Molecular Formula: $C_{21}H_{43}N_5O_7$
Molecular Weight: 477.60
Storage: 2°C – 8°C
Date of Manufacture: January 5, 2018
Retest Date: November 30, 2021

Test	Specification	Result
Appearance	White to off-white hygroscopic powder	Conforms
Potency (Dry Basis)	> 590 μ g/mg	630 μ g/g
Identification (IR)	To match spectra	Conforms
Specific Rotation	+107.0° to +121.0°	+115.0°
pH (40mg/mL)	3.5 – 5.5	4.6
Composition		
C1	20.0 – 50.0%	26.0%
C1a	10.0 – 35.0%	23.0%
C2a+C2	25.0 – 55.0%	51.0%
Moisture (LOD)	≤ 18.0%	7.0%
Residue on Ignition	≤ 1.0%	0.2%
Residual Solvents	To meet requirements	Conforms
Methanol	≤ 1.0%	0.2%

Approved by:

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