



Specification

Gentamicin Sulfate USP

Catalog Number: GS1007
CAS Number: 1405-41-0
Molecular Formula: $C_{21}H_{43}N_5O_7$
Molecular Weight: 477.60
Storage: 2°C – 8°C
Retest Period: Three years from the date of manufacture

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

Approved:

John Grubb, PhD
Gojira Fine Chemicals
Quality Manager
Tel: 440-252-5397, Fax: 888-211-5523
docsupport@gojiraafc.com

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