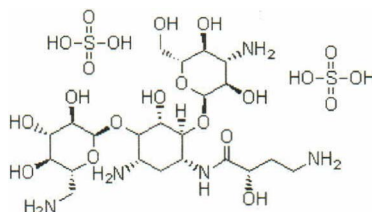


Batch no RB6003A
Mf date Jan 15 2026
Retest Jan 14 2030

Molecular Structure



Molecular Formula $C_{22}H_{43}N_5O_{13} \cdot 2(H_2SO_4)$

Molecular Weight 781.76

CAS Registry Number 39831-55-5

Jul 23 2026

Tests	Specifications	Results
Appearance	White or almost white powder	White powder
Solubility	Freely soluble in water, practically insoluble in acetone & in ethanol (96%)	Conforms
Identification	IR, TLC, reaction of sulfates	Positive
pH	2.0 ~ 4.0	3.6
Specific rotation (odb)	+76 ~ +84°	+80°
Sulfate (odb)	23.3 ~ 25.8%	24.5%
Loss on drying	≤13.0%	10.4%
Pyrogens	Meets the requirements	Conforms
Related substances	Impurity A ≤ 0.5% Impurity B ≤ 0.5% Impurity F ≤ 0.5% Impurity H ≤ 0.5% Impurity I ≤ 0.5% Any other impurity ≤ 0.5% Total impurities ≤ 1.5%	< 0.1% < 0.1% 0.23% 0.28% < 0.1% 0.19% 0.86%
Residual solvent	Methanol ≤ 3000 ppm Ethanol ≤ 5000 ppm Acetone ≤ 2000 ppm Acetonitrile ≤ 410 ppm	< 7.2 ppm 1244 ppm 4 ppm < 1.9 ppm
Bacterial endotoxins	< 0.2 EU/mg	Conforms
Microbial limits	Total aerobic microbial ≤ 1000 cfu/gr Total combined yeasts & molds ≤ 100 cfu/gr	< 10 cfu/gr < 10 cfu/gr
Hydrazine (GC)	≤1.0 ppm	< 0.45 ppm
Residual NOP (HPLC)	≤100 ppm	< 4.1 ppm
Residual PHBA (HPLC)	≤100 PPM	< 14.8 ppm
Phthalhydrazine (HPLC)	≤1.0 ppm	< 0.3033 ppm
Assay (HPC) odb	96.5 ~ 102.0%	100.8%
Packaging & storage	Preserve in tight containers	
Conclusion	Material complies with EP and in-house standard.	