



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-29065
Lot Number: SAMPLE
Product Name: Geneticin (G418) Sulfate
CAS Number: 108321-42-2
Molecular Formula: $C_{20}H_{40}N_4O_{10} \cdot 2H_2SO_4$
Molecular Weight: 692.71

Test	Specification	Result
Appearance		White powder
Purity (HPLC)		91.3%
Purity (TLC)	$\geq 98\%$ (≤ 3 spots)	Complies
pH	5.0 - 6.0	5.8
Solution		Colorless solution (100 mg/mL in H ₂ O)
A230	(1mg/mL) ≤ 0.015	0.002
A570	(100 mg/mL) ≤ 0.010	0.007
Optical Rotation	+104° to +121°	+118°
Heavy Metals (Pb)	≤ 20 ppm	< 20 ppm
Potency (Dry Basis)	≥ 700 U/mg	763 U/mg
Related Substances	(NH ₄ ⁺) $\leq 1.0\%$	< 1.0%
Water Content	$\leq 8.0\%$	6.5%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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