



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-203279  
Lot Number: SAMPLE  
Product Name: Spectinomycin dihydrochloride pentahydrate  
CAS Number: 22189-32-8  
Molecular Formula:  $C_{14}H_{24}N_2O_7 \cdot 2HCl \cdot 5H_2O$   
Molecular Weight: 495.35  
Native Source: Streptomyces griseus

Test	Specification	Result
Appearance	Clear and colorless, white or almost white powder	Complies
Assay (GC)	93-102% (as dry basis)	98.7%
Identification (Chloride)	Conforms to structure	Complies
Identification (Infrared Spectrum)	Conforms to structure	Complies
pH	3.8-5.6	5.2
Solubility	Freely soluble in water; very slightly soluble in ethanol (96%)	Complies
Specific Rotation	+15° to +21°	+17.4°
Potency (GC)	As dry basis	667 IU/mg
Sulfated Ash	≤1.0%	0.5%
Water Content	16.0-20.0%	17.8%

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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