

Certificate of Analysis

G418 DISULFATE SOLUTION TISSUE CULTURE GRADE – 50mg/ml

Catalog # IB02060

Size 20 ml

Catalog Number: IB02060

<u>Lot Number</u>: G001-31-L5

 $\underline{\textbf{Molecular Formula:}} \ \ C_{20}H_{40}N_4O_{10}*2H_2SO_4$

Molecular Weight: 692.70

CAS No.: 108321-42-2

Appearance: Clear, colorless to light yellow solution

	Specification	<u>Actual</u>
Absorbance:		
280nm (1mg/ml)	\leq 0.015	0.003
570nm (100mg/ml)	≤ 0.10	0.005
Ammonia:	≤ 1.0%	0.021%
Biological Assay:		
ED ₅₀ Resistant:	\geq 2,500 µg/ml	6,541 µg/ml
ED ₅₀ Sensitive:	\leq 400 μ g/ml	121 µg/ml
Elemental Analysis:		
Carbon	28.8 - 36.07%	30.81%
Hydrogen	5.76 - 7.76%	6.68%
Nitrogen	6.72 - 8.41%	7.12%
Water of hydration:	0 - 6	4
Identification (HPLC; IR):	Conforms; Conforms	Conforms; Conforms
pH (200mg/ml):	4.6 - 6.0	5.44
Solubility (100mg/ml in H ₂ O): Clear and complete		Conforms
Specific Rotation:	+104° - +121°	+110°
TLC Analysis (Max three spots): Conforms		Conforms
Water (Karl Fisher):	≤ 12%	7.31%
Potency (as is; dried basis): ≥700µg/mg; ≥720µg/mg		731 μg/mg; 794 μg/mg
Potency/ml:	50 +/- 10mg/ml	50.1 mg/ml
Sterility:	No colonies	No Microbial Growth
Fill Volume:	20.1 - 20.4 ml/bottle	Conforms

Storage

Store at +4°C. Warm to room temperature before opening. Keep tightly sealed.

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature: <u>K.McCarthy</u>

Date: 03/08/2017