



## Specification

### G-418 Disulfate Salt

**Catalog Number:** DS1002  
**CAS Number:** 108321-42-2  
**Synonym(s):** Geneticin  
**Molecular Formula:**  $C_{20}H_{40}N_4O_{10} \cdot 2H_2SO_4$   
**Molecular Weight:** 692.70  
**Storage:** 2°C – 8°C  
**Retest Period:** Eighteen months from the date of manufacture

Test	Specification
Appearance	White powder
Activity (Dry Basis)	$\geq 700U/mg$
Activity (As-Is Basis)	$\geq 700U/mg$
Specific Rotation ( $c=1$ @25°C)	+104°C to +121°C
Purity (TLC)	$\leq 3$ spots
Purity (HPLC)	Report
Solubility (100mg/mL)	Clear & colorless solution
pH	5.0 – 6.0
Water (LOD)	$\leq 12.0\%$
Absorbance: A570nm	$\leq 0.10$
A280nm	$\leq 0.015$
Heavy Metals (as Pb)	$\leq 20$ ppm
Ammonia	$\leq 1.0\%$

Approved:

Date: September 12, 2018

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