

## Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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## **Certificate of Analysis**

## **G-418 Disulfate Salt**

Catalog Number:DS1002Lot Number:1116601CAS Number:108321-42-2Synonym(s):Geneticin

Molecular Formula:  $C_{20}H_{40}N_4O_{10} \cdot 2H_2SO_4$ 

Molecular Weight:692.70Storage: $2^{\circ}\text{C} - 8^{\circ}\text{C}$ Retest Date:June 1, 2018

Test	Specification	Result
Appearance	White powder	Conforms
Activity (Dry Basis)	≥ 700U/mg	767U/mg
Optical rotation (@25°C)	+104°C to +121°C	+119°C
Purity (TLC)	≥ 98% (≤ 3 spot)	> 98% (1 spot)
Purity (HPLC)	Report	90.40%
Solubility (100mg/mL)	Clear & colorless solution	Conforms
pH	5.0 - 6.0	5.2
Water (KF)	≤ 12.0%	7.9%
Absorbance: A570nm	≤ 0.10	0.003
A280nm	≤ 0.015	0.000
Heavy Metals (as Pb)	≤ 20 ppm	< 20ppm
Ammonia	≤ 1.0%	< 1.0%

Date: November 16, 2016

Approved by:

John Grubb

John Grubb, PhD

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Quality Manager

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