



## CERTIFICATE of ANALYSIS

**PRODUCT:** **G-418 Sulfate Sterile Filtered Solution**  
[Geneticin; Glycoside-418, Sulfate; BRN 1669188;  
Antibiotic G418];  
C<sub>20</sub>H<sub>40</sub>N<sub>4</sub>O<sub>10</sub>•2H<sub>2</sub>SO<sub>4</sub>, M.W. 692.70, CAS# [108321-42-2]  
*Concentration: 50mg/ml in DI water*

**PRODUCT NUMBER:** G-1035  
**LOT NUMBER:** B1816  
**APPEARANCE:** Clear and colorless solution

	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
<b>SOLUTION:</b>	Filtered through 0.22µm micron filter	Confirms
<b>SPECIFIC OPTICAL ROTATION:</b>	+ 104° - + 121°	+ 114°
<b>WATER:</b>	≤ 8.0%	5.5%
<b>pH:</b>	5.0 – 6.0	5.5
<b>PURITY (TLC):</b>	≥ 90%	98% (1 spot)
<b>POTENCY (on dried basis):</b>	> 700 µ/mg	745 µ/mg
<b>HEAVY METALS as Pb:</b>	≤ 100ppm	< 20ppm
<b>NH<sup>4+</sup>:</b>	≤ 1.0%	< 1.0%
<b>ABSORBANCE A570nm:</b>	≤ .10	0.01

# A.G. Scientific, Inc.

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ABSORBANCE A280nm:

≤.015

0.001

## STORAGE & HANDLING:

Store at +4°C. **PROTECT FROM LIGHT!**

WARNING: **HARMFUL! IRRITANT!**

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: **KT**