

## Certificate of Analysis

**PRODUCT:** **G-418 Sulfate**  
[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. 692.7, CAS# [108321-42-2]**

**PRODUCT NUMBER:** G-1033

**LOT NUMBER:** L1509

**APPEARANCE:** White powder

	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
<b>WATER:</b>	≤8.0%	6.5%
<b>SOLUBILITY</b> (100mg/mL in H <sub>2</sub> O):	Colorless solution	Pass
<b>PURITY</b> (HPLC):	As reported	91.3%
<b>PURITY</b> (TLC):	≥98% (≤3 spots)	conforms
<b>POTENCY</b> (dry basis) :	≥700 U/mg	763 U/mg
<b>OPTICAL ROTATION</b> (@ 25°C):	+104° to +121°	+118°
<b>HEAVY METALS</b> (as Pb):	≤20ppm	< 20ppm
<b>NH<sub>4</sub><sup>+</sup>:</b>	≤1.0%	< 1.0%
<b>pH:</b>	5.0-6.0	5.8
<b>ABSORBANCE</b>		
<b>A<sub>280</sub></b> (1 mg/mL):	≤0.015	0.002
<b>A<sub>570</sub></b> (100 mg/mL):	≤0.010	0.007

**STORAGE & HANDLING:** Store at +4°C. **PROTECT FROM LIGHT & MOISTURE!**

**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: **PC**