

Certificate of Analysis

PRODUCT: **G-418 Sulfate**
 [Glycoside-418, Sulfate; BRN 1669188; Antibiotic G418];
 $C_{20}H_{40}N_{4}O_{10} \cdot 2H_2SO_4$, M.W. 692.7, CAS# [108321-42-2]

PRODUCT NUMBER: G-1033

LOT NUMBER: L1339

APPEARANCE: White powder

	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
WATER:	≤8.0%	6.0%
SOLUBILITY (100mg/mL in H ₂ O):	Colorless solution	Pass
PURITY (HPLC):	As reported	91.9%
PURITY (TLC):	≥98% (≤3 spots)	conforms
POTENCY (dry basis) :	≥700 U/mg	755 U/mg
OPTICAL ROTATION (@ 25°C):	+104° to +121°	+117°
HEAVY METALS (as Pb):	≤20ppm	< 20ppm
NH₄⁺:	≤1.0%	< 1.0%
pH:	5.0-6.0	5.6
ABSORBANCE		
A₂₈₀ (1 mg/mL):	≤0.015	0.000
A₅₇₀ (100 mg/mL):	≤0.010	0.003

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: **KLS**