



## CERTIFICATE OF ANALYSIS

**PRODUCT:** **Kasugamycin;** Aminoglycoside antibiotic and pesticide; Isolated from *Streptomyces kasugaensis* C<sub>14</sub>H<sub>25</sub>N<sub>3</sub>O<sub>9</sub> · HCl, M.W. 433.8, CAS# [6980-18-3]

**PRODUCT NUMBER:** K-1066

**LOT NUMBER:** B1935

**APPEARANCE:** White to tan solid

**SOLUBILITY:** Soluble in water

**DESCRIPTION:** A unique aminoglycoside antibiotic which binds to the 30S subunit of bacterial ribosomes and suppresses protein synthesis. Unlike most aminoglycoside antibiotics which exhibit broad activity against both Gram-positive and Gram-negative bacteria, kasugamycin exhibits limited activity against phytopathogenic microbes. Used as a pesticide. Binds to the 30S subunit of bacterial ribosome and suppresses protein synthesis. Inhibits translation initiation of canonical but not of leaderless messenger RNAs.

**STORAGE & HANDLING:** Store at -20°C. Store solutions at -20°C for up to 3 months.

CAUTION: For laboratory research & scientific manufacturing 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: DD