

DATA SHEET

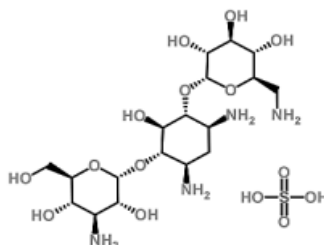
Version: 2
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1. Identification

Product name	Kanamycin Sulphate
	5 g
Cat. No	AB005

2. Description

Kanamycin Sulfate is a water-soluble antibiotic, originally purified from *Streptomyces kanamyceticus*, with broad antibacterial spectrum, including mycobacteria, many gram-positive and most gram-negative bacteria. Kanamycin inhibits bacterial protein synthesis by binding 70S ribosomes resulting in dysfunctional translation of mRNA. It is commonly used as a selective agent to select for resistant mammalian, fungal, or bacterial cells that contain the kanamycin resistance genes and is also used for the prevention of bacterial contamination of cell cultures.



3. Specifications

- CAS No: 25389-94-0
- Molecular Formula: $C_{18}H_{36}N_4O_{11} \cdot H_2O_4S$
- Molecular Weight: 582.58
- Solubility: Soluble in water (50 mg/mL)
- Formulation: A crystalline solid

4. Storage specifications

Store at -20°C.

5. Applications

- Used to select for kanMX transformed cells or other kanamycin resistance genes.
- Used for the prevention of bacterial contamination of cell cultures.

6. Further information

Product Use Limitation This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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