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Kanamycin Sulfate

卡那霉素硫酸盐

$C_{18}H_{36}N_4O_{11} \cdot H_2SO_4$ MW 582.58 CAS: 25389-94-0

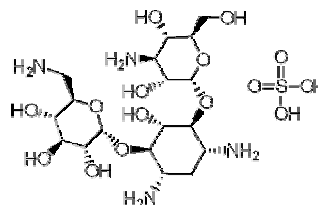
● Storage: 4°C

● Specification:

Potency(mcg/mg).....700-750

Form.....white powder

Solubility.....H₂O



● **Product description:**

Kanamycin sulfate is an antimicrobial agent effective against Gram-negative and Gram-positive bacteria and mycoplasma. It binds to the 70S ribosomal subunit, inhibits translocation, and elicits miscoding. Cross-resistance occurs between kanamycin and neomycin, framycetin, and paromomycin, and partial cross-resistance has been reported between kanamycin and streptomycin. Aminoglycosidemodifying enzymes (acetyltransferase, phosphotransferase, nucleotidyltransferase) alter the antibiotic, preventing its interaction with ribosomes. Kanamycin sulfate can be added into agar (agar plate), and the plate should be then be sealed to prevent any evaporation of moisture from the agar. The sealed plate can be stored at 2-8 °C for about one month. If the plate is not sealed to prevent evaporation of moisture, the kanamycin can degrade. The working concentration of Kan in LB medium is usually 10-50 µg/ml.

● **卡那霉素母液配制方法:**

10mg/ml 卡那霉素水溶液, 配制量: 10ml

取 100mg 卡那霉素迅速加到 15ml 离心管中, 加入 7-8ml 水溶解, 混匀后补加水总体积 10ml; 0.22µm 水系滤膜抽滤除菌, 分装后-20°C贮存。

● **Solubility / Solution Stability:**

Sterile solutions can be prepared by sterile filtration through a 0.2 µm filter. Solutions are stable at 37 °C for approximately 5 days. Aqueous stock solutions can be stored at 2-8 °C or -20°C for long term storage.