

Kanamycin Sulfate

Ordering info

TBR0118, Kanamycin Sulfate 5g

Description

Kanamycin Sulfate is an antibiotic isolated in 1957 from the bacterium *Streptomyces kanamyceticus*. It belongs to the group of aminoglycoside antibiotics which binds to the 30S ribosomal subunit causing translocation inhibition and misreading of tRNA. Their specific interactions with bacterial ribosomal RNAs inhibits bacterial protein synthesis.

CAS: 25389-94-0

Formula: $C_{18}H_{36}N_4O_{11} \times H_2SO_4$

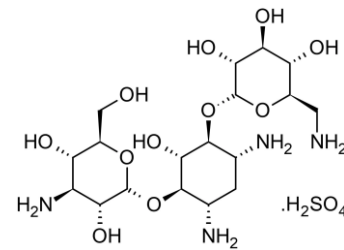
MW: 582.58 g/mol

Features

- Highest purity (>99%).
- White powder.
- Solubility: 50 mg/mL in water.
- Insoluble in acetone, chloroform, ethanol, ether and ethyl acetate.

Applications

- Selective antibiotic for Kan^R plasmid transformed bacteria.
- Antibiotic action against Gram-positive, Gram-negative bacteria and mycoplasmas.



Storage

Store at -20°C.

Following reconstitution, aliquot and freeze at -20°C.

Quality Control

Purity is tested by HPLC (>99%).

Also available:

Ampicillin (TBR0112, TBR0113)

Water, Nuclease free (TBB0300, TBB0301)



PROCEDURE TO PREPARE KANAMYCIN STOCK SOLUTION (50 mg/mL)

1. Dissolve completely **0.5g Kanamycin Sulfate** (TBR0118) in water. Add **water up 10 mL**.
2. Prewash a 0.22 – 0.45 μm filter with 20 mL of water.
3. Put the washed filter over a new sterile tube. Then, filter Kanamycin Stock Solution.
4. Make aliquots in 1,5 mL tubes and store at -20°C (stable 1 year).

