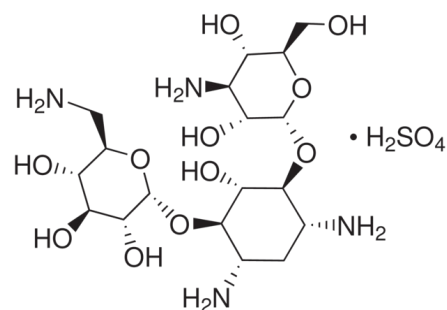




Kanamycin Sulfate

Product Description

Name :	Kanamycin Sulfate, Solution 50mg/ml
Catalog Number :	N13805, 100 ml N13806, 300 ml
Structure :	$C_{18}H_{36}N_4O_{11} \cdot H_2SO_4$ CAS: [70560-51-9]
Molecular Weight :	582.59



Storage: $-20^{\circ}C$

Introduction

Kanamycin Sulfate Solution is an aminoglycoside antibiotic consisting of a six-membered aminocyclitol ring attached to aminosugar side chains through glycosidic bonds. Kanamycin Sulfate Solution acts by inhibiting protein synthesis, and compromising translational fidelity in susceptible bacteria. Active against most strains of gram-negative bacteria, many strains of gram-positive bacteria and some strains of *Mycobacterium*. Often used as a transgenic marker in plants. Most active in alkaline solution.

Application

Aminoglycoside-antibiotic with broad antibacterial spectrum, (including mycobacteria, many gram-positive and most gram-negative organisms); Additive in culture media for the isolation of group D streptococci on Kanamycin Esculin Azide Agar (Mossel et al.) or for selection of transformed plant cells containing the neomycin phosphotransferase (for kanamycin resistance); on a kanamycin-medium.^{1,2}

Kanamycin Sulfate solution is usually added to freshly autoclaved media (after they have cooled to about $55^{\circ}C$). This antibiotic solution can also be plated directly on the surface of an agar plate and spread evenly. Liquid media or agar plates containing Kanamycin Sulfate should be stored at $4^{\circ}C$ for no longer than 30 days to maintain the effectiveness.

References

- 1. R.T. Fraley *et al.* Miami Winter Symp. 20, 211, (1983)
- 2. D.A.A. Mossel *et al.* Arch. Lebensmittelhyg. 29, 121, (1978)

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

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