

Kanamycin Solution

With 50 mg/ml Kanamycin in 0.9% normal saline

Product Code: A009

Product Description :

Molecular Weight: 582.58

Molecular Formula: $C_{18}H_{36}N_4O_{11} \cdot H_2O_4S$

CAS No: 25389-94-0

Synonym: Kanamycin sulfate salt, Kanamycin A

Kanamycin sulfate is a water soluble broad spectrum antibiotic obtained from soil bacterium *Streptomyces kanamyceticus*. It is an aminoglycoside antibiotic 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. Aminoglycoside-modifying enzymes (acetyltransferase, phosphotransferase, nucleotidyltransferase) alter the antibiotic, preventing its interaction with ribosomes.

A009 is sterile filtered solution formulated to contain 50mg/ml Kanamycin.

Directions :

Recommended use concentration is 2ml/L. Sensitive cell lines may react differently to this product. Hence it is recommended to determine optimum usage dose empirically for individual cell line.

Quality Control:

Appearance

Colorless, clear solution.

pH

7.00 - 8.00

Osmolality in mOsm/Kg H₂O

350.00 -450.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Kanamycin Potency

50 - 60mg/ml

Cultural Response

No toxicity to cells.

Endotoxin Content

NMT 0.5EU/ml

Storage and Shelf Life:

Store at 2 - 8°C.

Shelf life of the product is 24 months.

Use before expiry date given on the product label.

Revision No: 1 / 2012

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ Publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.