

Product Name: Gentamicin sulfate

Catalog No.: 6442

Batch No.: 4

CAS Number: 1405-41-0

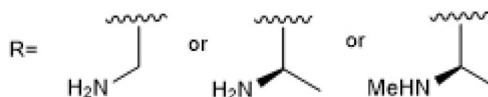
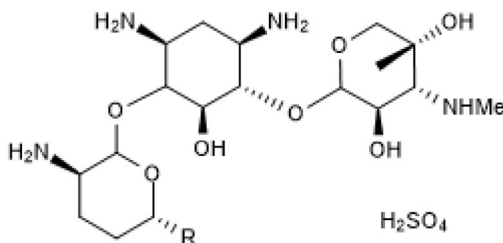
1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance: White to off-white solid

Solubility: water to 100 mg/ml

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Potency: 673 IU/mg

pH (4% in H₂O): 5.1

Bacterial Endotoxins : <0.71 IU/mg

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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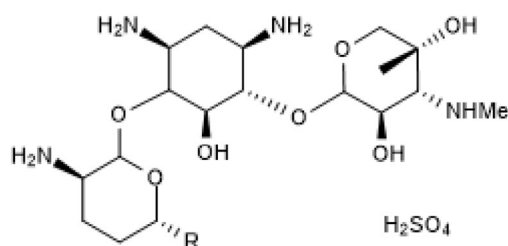
Description:

Gentamicin sulfate is an aminoglycoside antibiotic. Irreversibly binds bacterial ribosomes and disrupts protein synthesis. Active against gram-positive and -negative bacteria. Stable over wide range of temperatures.

Physical and Chemical Properties:

Physical Appearance: White to off-white solid

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mg/ml

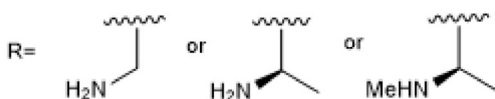
Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.



References:

Schroeder *et al* (2000) Modulation of RNA function by aminoglycoside antibiotics. EMBO.J. **4** 1. PMID: 10619838.

Casemore (1967) Gentamicin as a bactericidal agent in virological tissue cultures. J.Clin.Pathol. **20** 298. PMID: 4972293.

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