Alfasan
The Manufacturers of Veterinary Medicines

ELYOSER S.A.E.
Medicine Trading
شركة اليسر لتجارة الأدوية
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Kanamycin 25

Kanamycin is an antibiotic produced by **Alfasan** that specializes in the production of high quality injectable preparations, ointments, and tablets.

Alfasan using a high technology approach in order to comply with the good manufacturing practice (GMP) regulations.

Kanamycin2 % from Alfasan ….New Winning Move to control Bacterial infection

Composition

Each ml contains:

250 mg kanamycin (as sulphate)

Kanamycin molecule is one of aminoglycoside antibiotic, available in, intravenous, and intramuscular forms, and used treatment of a wide variety of infections.

Antibiotics Groups

1. Penicillins

1.Narrow spectrum
e.g. Penicillin-G
2. Semi-synthetic
B-Lactamase resistance as Cloxacillin and Dicloxacilln
3. Broad Spectrum
-Ampicillin
-Amoxicillin.

2.Cephalosporins

-Cephradin.
-Cefotaxime.

3.Chloromphnicol

- Florfenicol.

4. Aminoglycosides

-Streptomycin.
-Neomycin.
-Gentamicin.
-Kanamycin.

5. Aminocyclitol

- Apramycin.
- Spectinomycin.

6. Macrolides

-Tilmicosin.
-Tylosin.
-Spiramycin.
-Erthromycin.
-Taimulin.

7.Tetracyclines

Tetracycline.
Oxytetracycline.
Doxycycline.

8. Lincosamides

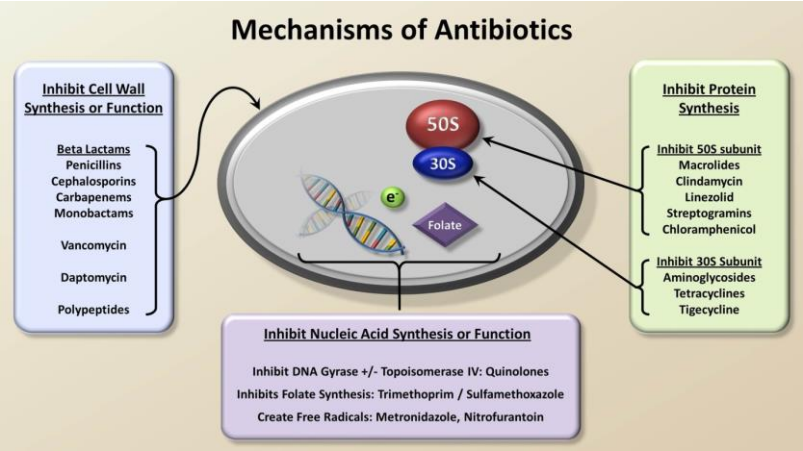
- Lincomycin.
- Clindamycin.

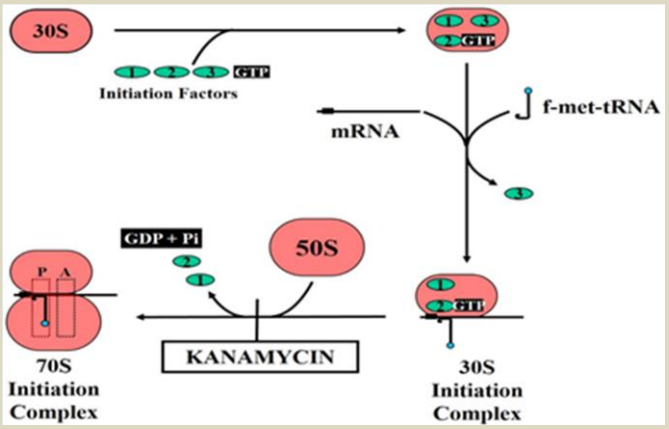
9. Polypeptides

- Colistin (Polymexin E).
- Bacitracin.

Mode of Action

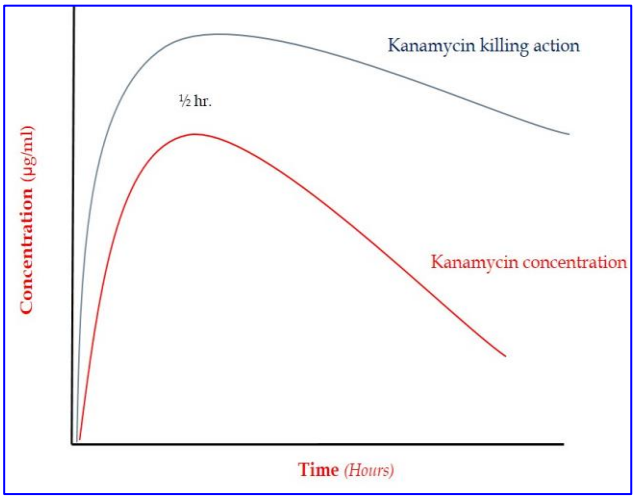
Kanamycin inhibits protein synthesis by irreversible binding to the 30s riboson





Pharmacokinetics

1. **Rapid Absorption from IM injection.**
2. **Reach to plasma peak concentration after 30-60 min**
3. **Availability reach to >90%.**
4. **Continues to suppress bacterial growth several hours after fall in Minimum Inhibitory Concentration (MIC).**
5. **Excreted unchanged in urine**
6. **Withdrawal time 6 days only compared with others Aminoglycosides**



Pharmacodynamics

1- **Broad Spectrum**

- **Active against:-**
  - ✓ **Gram-positive (Corynebacterium, Staphylococcus**
  - ✓ **Gram-negative bacteria, such as, Enterobacter, coli, Klebsiella, Proteus and Salmonella.**

2- **Kanamycin is bactericidal in low doses, so development of resistance is very slow.**

CRD, CCRD

E. coli, Salmonella

Coryza, Klebsiella

Chylamidia, Staphylococcus

Secondary infections in case of viral diseases.

Features of Kanamycin 25 %

1- Kanamycin 25 % Produced by Alfasan Holland

2- Kanamycin 25 % Registered in MOH (Ministry of Human Health)

2- Kanamycin 25 % the only Molecule in Egypt with concentration 25 %

3- Kanamycin 25 % of very low bacterial resistance

4- Kanamycin 25 % reach to Peak of serum level after 30 minute of I M Injection

5- Kanamycin 25 % of lowest withdrawal time within Aminoglycosides group

Indications of Kanamycin 25 %

1- Kanamycin 25 % used for treatment of respiratory infections

2- Kanamycin 25 % is highly recommended in CRD.

3- Kanamycin 25 % effective treatment of salmonellosis

4- Kanamycin 25 % used for control secondary infections in viral disease

Synergism and Antagonism

1. **Kanamycin 25 % Synergistic with:**
   Spiramycin, Cephalosporins, Lincomycin, Spectinomycin

2. **Kanamycin 25 % NOT used with:**
   Chloramphenicol, Sulphonamides

Dosage and administration

Kanamycin 25 %: 15-25 mg/kg body weight / intramuscular

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