

# Estrep-50

REG. SAGARPA Q-2083-018



## FORMULA

Each bottle contains: Streptomycin base (As Sulfate): 50 g To reconstitute in 200 mL from Water injectable

## PRESENTATIONS

Jars of: 50 g and corresponding diluent to reconstitute in sterile water with a final volume of 200 ml

## DESCRIPTION

After parenteral administration, the absorption of most of the streptomycin is complete and rapid. Streptomycin is well absorbed, reaching maximum concentrations in blood between 30 and 90 minutes, only About 10% of the 2 antibiotics bind to plasma proteins. Streptomycin is a compound extremely polar so it does not penetrate the cells easily and does not reach adequate levels in the eye and central nervous tissue, even with inflammation of the meninges. The highest concentration in the tissues is achieved in the Renal cortex is also obtained high levels in synovial fluid pleura, peritoneum and in organs such as liver and lung. Serum half-life 2-3 hrs. Excretion is mainly effected by glomerular filtration, The 2 compounds are excreted in active form.

## FARMACODINAMIA

Streptomycin of the formula is bactericidal for susceptible microorganisms by virtue of inhibition irreversible protein synthesis, this occurs as follows:

- 1.- Penetration to the bacteria through active transport and passive diffusion.
  - 2.- Inhibition of protein synthesis at the 30s ribosomal subunit level
    - a) They interfere with the complex of initiation of peptide formation.
    - b) Induces a wrong reading of the messenger RNA template code which causes the incorporation of incorrect amino acids in the peptide.
    - c) Originate the breaking of the polysomes into non-functional monosomes.
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## INDICATIONS

In all species for infections caused by Gram-negative germs, susceptible to the action of the Streptomycin such as E. coli, Salmonella, Leptospira, pneumonia due to Pasteurella sp, etc. DOSE: Bovine, Equine, Swine, Sheep and Goats: 10 to 20 mg per kg of body weight. Canines and birds: 25 to 50 mg per kg of body weight

## ROUTE OF ADMINISTRATION

Deep intramuscular

## WARNINGS

Do not use this product 30 days before the slaughter of animals intended for human consumption. Do not consume the milk of treated cows until 72 hours after the last treatment. Do not use in animals allergic to any of the components of the formula. Keep out of the reach of children. Store in a fresh and dry place

## CONSULT A VETERINARY

YOUR PURCHASE REQUIRES A MEDICAL PRESCRIPTION