

G-MYCIN 100 G/KG WATER SOLUBLE POWDER

G-Mycin 100 g/kg water soluble powder appears to be a white or almost white crystalline powder packed in aluminium bag with 120 micron thickness.

Composition

Each kg contains
Gentamycin Sulphate 100 g

Pharmacodynamics

Aminoglycosides enter susceptible bacteria by oxygen-dependent active transport (making anaerobes impervious to them) and by passive diffusion. Once the antibiotic has gained access, it binds irreversibly to a receptor protein on the 30S ribosomal subunit and blocks the formation of a complex that includes mRNA, formylmethionine, and tRNA. As a result, the tRNA is translated incorrectly, producing a nonfunctional protein. Aminoglycosides also disrupt protein synthesis by disruption of polysomes and may prevent the initiation of DNA replication.

Pharmacokinetics

In general, aminoglycosides are very poorly absorbed from oral administration in adult animals, including cattle, chickens, and pigs. In distribution, Aminoglycosides are distributed primarily into the extracellular space and over time accumulate in tissues. The amount of antibiotic in most tissues appears to be dependent on the total dose administered over time rather than the size of each individual dose. Aminoglycosides do not distribute well across membrane barriers and, therefore, are not found at high concentrations in brain tissue, cerebrospinal fluid, ocular fluid, or respiratory secretions.

In biotransformation, in many species, aminoglycosides are eliminated in the form of the administered drug; that is, they are not bio transformed.

Indications

Swine (weanling): For control and treatment of colibacillosis caused by strains of *Escherichia coli* sensitive to gentamicin.

Swine: For control and treatment of swine dysentery associated with *Treponema hyodysenteriae*.

Dosage

Swine (weanling): Gentamicin sulfate equivalent to 25 mg of gentamicin per gallon of drinking water for 3 consecutive days, to provide 0.5 mg per pound of body weight per day.

Swine: Gentamicin sulfate equivalent to 50 mg of gentamicin per gallon of drinking water for 3 consecutive days, to provide 1 mg per pound of body weight per day.

Mode of Administration

Oral Water Soluble Powder.

Contraindication

The medical contraindications have been selected on the basis of the potential significance. This medication should not be used if there is hypersensitivity to gentamicin. They should be used with extreme caution in patients with preexisting renal disease with concomitant monitoring and dosage interval adjustment made. Other risk factors for development of toxicity include fever, sepsis and dehydration.

Warning and Precautions

Cautions should be employed for renal diseases animals.

Interactions with Other Medicaments

The following drug interaction and related problems have been selected on the basis of potential clinical significance. Gentamicin is commonly synergistic with beta-lactam antibiotics against of Gram negative rods and often also against Gram positive bacteria. Antagonism may occur with chloramphenicol, tetracycline and erythromycin.

Cephalosporins could cause additive nephrotoxicity when used with aminoglycosides but this interaction has only been well documented with cephaloridine and cephalothin.

Concurrent use with loop or osmotic diuretics may increase the nephrotoxic or ototoxic potential of the aminoglycosides.

Concomitant use with general anesthetics or neuromuscular blocking agents could potentiate neuromuscular blockade.

Penicillins and gentamicin should not be mixed in vitro.

Statement on Usage during Pregnancy and Lactation

It should only be used in serious infections where the benefits of therapy must exceed the potential risks.

Adverse Effects

None known

Overdose and Treatment:

Stop medication and seek for veterinarian advice if there is sign of overdosage.

Withdrawal Period (s)

Do not slaughter treated swine for food for at least 10 days following treatment.

Storage

Store below 30°C. Protect from heat and sunlight exposure.

Keep medicine out of reach of children (Jauhkan ubat daripada kanak-kanak).

Any unused product or packaging should be disposed of in accordance with local legislation.

Shelf-life packaged for sale: 3 years.

Shelf-life after opening: 7 days.

Shelf-life after dilution: 1 days.

Packaging

100 g

Manufacturer and product holder

NAM PHARM SDN. BHD.

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Date of revision

02-04-2026