

GENTOVIT® 10%
Water-soluble powder for oral administration

Description

White water-soluble powder.

Composition

1 g of the drug contains:

active ingredient - gentamicin sulfate – 100 mg;

excipient - glucose.

Pharmacological properties

ATCvet: QJ01. Antibacterials for systemic use. **QJ01GB03.** Gentamicin.

Gentamicin is an aminoglycoside antibiotic. It makes bactericidal effect upon gram-negative and, partially, upon gram-positive bacteria: *Enterobacter aerogenes*, *E. coli*, *Klebsiella spp.*, *Neisseria spp.*, *Pasteurella multocida*, *Pseudomonas aeruginosa*, *Salmonella spp.*, *Serratia marcescens*, *Shigella spp.*, *Staphylococcus spp.*, certain *Streptococcus species* and *Proteus species*, *Serpulina (Treponema) hyodysenteriae*, *Mycoplasma spp.*, *Corynebacterium spp.*, *Bacillus spp.*, *Clostridium spp.*, *Listeria monocitigenes*. Gentamicin penetrates into cell by way of oxygen-dependent active transport and passive diffusion. Then it binds to protein receptors at the level of ribosomal 30S subunits and blocks formation of a complex, which includes mRNA, formylmethionine and tRNA. Consequently, there appears incorrect translation of tRNA, which results in formation of non-functional proteins.

It is scarcely absorbed in blood and therefore acts only in organs of digestive system. Gentamicin does not demonstrate any toxic effect upon organisms of animals, does not cause any negative implications even in cases of major overdosing. Gentamicin is scarcely biotransformed in digestive tract and is eliminated from the body unchanged with feces.

Administration

Treatment of swine, calves (of up to 3 months of age), poultry (broilers, breeders, pullets) against diseases of digestive tract (colibacteriosis, salmonellosis, dysentery, campylobacteriosis) caused by gentamicin-sensitive microorganisms.

Dosage

Administer orally with drinking water or feed in the following doses:

- **swine:** 5 g per 100 kg body weight (5 mg of gentamicin sulfate per 1 kg body weight) daily (divide into 2 administrations). Duration of treatment: 3-5 days;
- **poultry (broilers, breeders, pullets):** 5 g per 100 kg body weight (5 mg of gentamicin sulfate per 1 kg body weight) daily. Duration of treatment: 5-7 days;
- **calves (of up to 3 months of age):** 5 g per 100 kg body weight (5 mg of gentamicin sulfate per 1 kg body weight) daily (divide into 2 administrations with interval of 12 hours). Duration of treatment: 3-5 days.

Contraindications

Do not use to treat animals with hypersensitivity to gentamicin. Do not prescribe the drug concurrently with or subsequently to other oto- or nephrotoxic drugs (streptomycin, kanamycin, apramycin, neomycin, chloramphenicol) as well as diuretic and muscle relaxants. Do not administer to cattle with functionally developed proventriculi and hens laying eggs for human consumption. Do not administer to animals with kidney function disorders, ear and labyrinth disorders.

Contraindications

Animal slaughter is possible as follows: calves, swine – in 10 days, broilers, breeders, pullets – in 14 days following the last administration. Meat obtained before the mentioned term shall be utilized or fed to non-productive animals depending on the statement of veterinary physician.

If used with feed, mix thoroughly. It is recommended to mix the powder with 3-10% of total feed quantity first and then blend the mixture obtained with the rest of the feed.

Packaging

Packages of film or foil materials of 1000 g.

Storage

Store in a dark damp-proof place out of the reach of children at 0-30°C.

Shelf life

3 years.

24 hours after dissolution in drinking water.