

SPELIMIX[®]

Solution for injections

Description

Transparent colorless solution.

Composition

1 ml of the drug contains:

active ingredients: lincomycin (lincomycin hydrochloride) – 50 mg; spectinomycin (spectinomycin sulfate) – 100 mg;

excipients: benzyl alcohol, water for injections.

Pharmacological properties

ATCvet: QJ01. Antibacterials for systemic use.

Lincomycin is an antibiotic of the lincosamides group. It inhibits synthesis of protein in microorganisms, binding ribosomal 50S subunits of bacterial cells. It demonstrates bacteriostatic or bactericidal action depending on concentration. It acts mostly upon gram-positive (*Staphylococcus spp.*, *Streptococcus spp.*, *Bacillus anthracis*, *Corynebacterium spp.*) and gram-negative microorganisms (*Actinobacillus spp.*, *Bordetella spp.*, *Nocardia spp.*, *Actinomyces spp.*) and is particularly effective against *Serpulina hyodysenteriae* and *Mycoplasma spp.*

Spectinomycin is an antibiotic of tricyclic structure of the aminoglycosides group. Its efficacy is related to inhibition of synthesis of proteins in microbial cell through binding of ribosomal 30S subunit of microorganisms, which prevents elongation of polypeptide chain at translocation stage. It is mostly effective against gram-negative and gram-positive microorganisms (*E. coli*, *Pasteurella multocida*, *Salmonella spp.*, *Clostridium spp.*, *Erysipelothrix rhusiopathiae*, *Haemophilus spp.*, *Vibrio spp.*) as well as mycoplasma (*Mycoplasma spp.*).

After parenteral administration lincomycin is distributed in organs and tissues, particularly, in bone tissue. Its binding to proteins makes 50%. Its concentration in blood reaches maximum in 2 hours following administration. Half-life period makes 2.5-4 hours. Major quantities of lincomycin and its metabolites are excreted with urine and bile.

Binding of spectinomycin to proteins does not exceed 10%. Its concentration in serum reaches maximum in 4 hours. Spectinomycin is scarcely biotransformed in the body and is eliminated intact with feces.

Administration

Treatment of calves (of up to 3 months of age), swine, sheep, goats, dogs, cats, poultry (broiler chickens, turkeys) against diseases of digestive tract and respiratory organs caused by lincomycin- and spectinomycin-sensitive microorganisms.

Dosage

Administer intramuscularly in the neck area in the following doses:

- **swine:** 1 ml of the drug per 10 kg body weight once daily for 3-7 days;
- **calves of up to 3 months of age:** 1 ml of the drug per 10 kg body weight once daily for 2-4 days;
- **sheep, goats:** 1 ml of the drug per 10 kg body weight once daily for 3 days;
- **dogs, cats:** 1 ml of the drug per 5 kg body weight once daily for 3-5 days (maximum treatment period – 21 days).

Administer subcutaneously in the following doses:

- **broiler chickens, turkeys:** 1 ml of the drug per 2.5 kg body weight once daily for 3 days.

Contraindications

Do not administer to animals with hypersensitivity to lincomycin and spectinomycin. Do not administer to animals with blood or liver disorders. Do not administer to horses, rabbits, chinchillas as well as to hens laying eggs for human consumption. Do not administer Spelimix[®] in combination with penicillin, quinolones, cephalosporins and erythromycin.

Precautions

Slaughter of mammals for meat is possible in 14 days and of poultry – in 7 days following the last administration of the drug. Milk from sheep and goats may be consumed by people in 3 days following the last administration of the drug. Meat and milk obtained before the mentioned term shall be utilized or fed to non-productive animals depending on the statement of veterinary physician.

Packaging

Glass vials of 100 ml sealed with rubber stoppers and aluminum caps.

Storage

Store in a dry, dark place out of the reach of children at 15-25°C.

Do not freeze!

Shelf life

2 years.

48 hours after the initial opening (sampling) provided it is stored at 2-8°C.