

TIAKUR[®] 250

Solution for injections

Description

Transparent brown liquid.

Composition

1 ml of the drug contains:

active ingredients: doxycycline hyclate – 150 mg; tiamulin (tiamulin hydrogen fumarate) – 100 mg;

excipients - 2-pyrrolidone, water for injections.

Pharmacological properties

Doxycycline is a broad-spectrum bacteriostatic antibiotic of the tetracyclines group. It is effective against gram-positive and gram-negative bacteria (*Staphylococcus spp.*, *Streptococcus spp.*, *Bac. anthracis*, *Clostridium spp.*, *Listeria spp.*, *Actinomyces spp.*, *Klebsiella spp.*, *Shigella spp.*, *Yersinia spp.*, *Bordetella spp.*, *Campylobacter spp.*, *E. coli*, *Haemophilus spp.*, *Pasteurella spp.*, *Salmonella spp.*), chlamydiae (*Chlamydia spp.*), mycoplasma (*Mycoplasma spp.*) and rickettsiae (*Rickettsia spp.*). Doxycycline inhibits synthesis of proteins of microbial cell, binding receptors of ribosomal 30S subunit in microorganisms. It blocks attachment of aminoacyl tRNA to acceptor site, preventing attachment of new amino acids to peptide chain and preventing in such a way synthesis of microbial proteins.

Tiamulin is a semisynthetic antibiotic of the diterpenes group, which is effective against gram-positive (*Staphylococcus spp.*, *Streptococcus spp.*, *Clostridium spp.*, *Corynebacterium spp.*, *Erysipelothrix spp.*, *Listeria spp.*) and certain gram-negative microorganisms (*Haemophilus influenzae*, *Pasteurella multocida*, *Actinobacillus pleuropneumoniae*, *Campylobacter spp.*), spirochetes (*Serpulina hyodysenteriae*, *S. innocens*, *S. pilosicoli*, *S. suis*) as well as *Lawsonia intracellularis*. The mechanism of its antibacterial activity consists in inhibition of synthesis of bacterial protein at the level of ribosomal 50S subunit.

Administration

Treatment of keratoconjunctivitis, colibacillosis, salmonellosis, pasteurellosis, staphylococcosis, gastroenterocolitis, mastitis, dysentery, atrophic rhinitis, enzootic pneumonia, actinobacillary pneumonia, haemophilosis, intestinal spirochetosis, necrotic enteritis in swine, cattle, sheep and goats. The drug is also effective in treatment of diseases of respiratory organs, urinary system, digestive tract, skin, musculoskeletal system, of post-surgical, wound and postpartum complications caused by doxycycline- and tiamulin-sensitive microorganisms.

Dosage

Administer intramuscularly for 2-3 days in the following doses:

- **cattle, sheep, goats, swine**: 1-1.5 ml per 10 kg body weight.

Administer not more than 10 ml into a single site to adult cattle, not more than 2.5 ml – to calves, sheep and goats, not more than 5ml to swine. In case the required dose exceeds the acceptable dose – divide it and make injections to several sites.

Contraindications

Do not administer to animals with hypersensitivity to tetracyclines and tiamulin as well as to animals with kidney and liver disorders. Avoid administration of drugs containing ionophoric antibiotics such as monensin, maduramycin, narasin, lasalocid or salinomycin during 7 days prior to, and during 7 days following administration of Tiakur[®] 250. Do not use the drug in combination with penicillins, cephalosporins.

Precautions

Animal slaughter for meat is possible in 21 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.

The drug is not prescribed in subtherapeutic doses. Allergic reactions are possible.

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 5-30°C.

Shelf life

2 years.

28 hours after the initial opening (sampling) provided it is stored at 5-30°C in the original packaging.