

TRIMECOL[®]
Water-soluble powder for oral administration

Description

White water-soluble powder.

Composition

1 g of the drug contains:

active ingredients: colistin sulfate – 1 200 000 IU; trimethoprim – 50 mg;

excipient - glucose.

Pharmacological properties

ATCvet: **QJ01**. Antibacterials for systemic use. **QJ01RA95**. Polymyxins, combinations with other antibacterials.

The drug composition includes the combination of trimethoprim and colistin, which has a synergistic antibacterial effect.

Colistin is an antibiotic of the polymyxins group, which makes bactericidal effect upon gram-negative microorganisms (*E. coli*, *Salmonella spp.*, *Pasteurella spp.*, *Haemophilus spp.*, *Bordetella spp.*). The mechanism of action of colistin consists in violation of integrity of cytoplasmic membrane of microorganisms. The antibiotic interacts with phospholipids and penetrates inside, thus destroying the cell membrane structure, the permeability of which changes immediately after contact with the drug. Apart from antibacterial effect colistin binds phospholipid A and neutralizes toxic effect of bacterial endotoxin.

Trimethoprim is a broad-spectrum antibacterial of the diaminopyrimidines group. It is effective against gram-positive and gram-negative microorganisms (*E. coli*, *Klebsiella spp.*, *Salmonella spp.*, *Pasteurella spp.*, *Enterobacter spp.*, *Proteus spp.*, *Shigella spp.*, *Staphylococcus spp.*, *Streptococcus spp.*, *Haemophilus spp.*, *Chlamydia spp.*) as well as toxoplasma and coccidia. The mechanism of action of trimethoprim consists in inhibition of bacterial reductase of dihydrofolic acid.

Colistin is poorly absorbed from intestine in minor quantities, so it is effective in treatment of diseases of digestive organs. Its concentrations in blood serum are low, but its concentrations in various sections of digestive tract is constantly high. 60% of colistin binds to phospholipids and liposaccharides of gram-negative bacteria. Colistin is eliminated from the body primarily with feces.

Trimethoprim is quickly absorbed from digestive tract and well distributed in all tissues and fluids of the body. Its concentrations in tissues are much higher than those in blood. High levels of the drug are observed in lungs, kidneys and liver. Concentration of trimethoprim in blood serum reaches its maximum in 1.5 hour following administration. Average half-life makes about 2.5 hours. Trimethoprim is primarily excreted renally. Its concentration in urine exceeds its concentration in blood by several times.

Administration

Treatment of diseases of respiratory organs, urinary system and digestive tract caused by trimethoprim- and colistin-sensitive microorganisms in calves, goats and lambs of up to 3 months of age, **swine**, rabbits, chickens and broiler chickens.

Dosage

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

- **Calves, goatlings and lambs of up to 3 months of age, swine, rabbits** 2-2.5 g of the drug per 10 kg body weight twice daily (maximum 30 g of the drug per animal daily) for 3 days;
- **Chickens and broiler chickens**: 1-2.5 g of the drug per 1 l of drinking water (young poultry – maximum 1 g of the drug per 1 l of drinking water in the beginning of treatment) for 3 days.

The drug solution must be the only source of drinking water throughout the whole treatment period!

Contraindications

Do not administer to animals with hypersensitivity to colistin and trimethoprim as well as to animals with liver and kidney injuries. Do not administer in combination with aminoglycosides (gentamicin, neomycin), muscle relaxant and anesthetics. Resistance of strains of pathogenic bacteria to colistin and/or trimethoprim belongs to contraindications for administration. Do not administer to hens laying eggs for human consumption as well as ruminants with functionally developed proventriculi.

Precautions

Animal slaughter for meat is possible in 7 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.

Packaging

Bags of 1 000 g of film or foil materials.

Storage

Store in a dry, dark place out of the reach of children at 5-30°C.

Shelf life

2 years.

24 hours after dissolution in drinking water.