

# PRODUCTS

## ANTI-INFLAMMATORY

### KETOPRO-100 solution of ketoprofen

#### Composition

1 ml contains active substance:  
Ketoprofen - 100 mg;  
Excipients.

#### Pharmacological properties

KETOPRO-100 is a non-steroidal anti-inflammatory drug (NSAID) that has an analgesic and antipyretic effect. Ketoprofen, which is part of the drug, is a derivative of propionic acid from the carboxylic acid group.

Ketoprofen acts on the central nervous system, suppressing the perception of pain.

In recommended doses the drug does not have local irritating, sensitizing, mutagenic, carcinogenic, embryotoxic, or teratogenic effects.



### TERMONORM powder of acetylsalicylic acid for heat stress reduction

#### Composition

1 g of powder contains an active substance:

Acetylsalicylic acid – 700 mg;  
Excipients.

#### Pharmacological properties

Acetylsalicylic acid is a non-narcotic analgesic of the salicylates group. It has an anti-inflammatory, analgesic, antipyretic effect and prevents platelet aggregation, which shows its antiaggregant effect.

The drug is administered to calves, pigs and poultry (broiler chickens, breeding chickens, young-replacements) in pathological states accompanied by hyperthermia, inflammatory and pain syndrome of mild and moderate intensity of various genesis (including inflammatory), including fever, respiratory diseases, MMA-syndrome (metritis-mastitis-agalactia), rheumatoid arthritis, osteoarthritis, laminitis, muscle and postoperative pain, heat stress.



## VITAMIN AND MINERAL PRODUCTS

### L-CYN vitamin B<sub>12</sub>, B<sub>3</sub>, L-carnitine and butaphosphan, injectable

#### Composition

1 ml of the drug contains active ingredients:

Butaphosphan – 100 mg;  
Cyanocobalamin – 0.05 mg;  
Nicotinamide – 5 mg;  
L-carnitine hydrochloride – 21 mg.  
Excipients.

#### Pharmacological properties

L-cyn is a complex drug, the action of which is due to the properties of the active ingredients: butaphosphan, a complex of B vitamins (vitamin B<sub>12</sub>, vitamin B<sub>3</sub> (PP)) and the vitamin-like substance of B-group (L-carnitine). The drug has tonic properties, normalizes metabolic and regenerative processes, has a stimulating effect on protein, carbohydrate and fat metabolism, increases the body's resistance to the effects of adverse environmental factors, infections and toxins, and promotes the growth and development of animals, including birds.



## IMMUNOSTIMULANTS

### STIMULUS complex of biologically active substances, immunostimulant

#### Composition

1 ml of the drug contains active ingredients:

Sodium nucleinate – 1 mg;

The complex of biologically active substances contains: Vitamins and vitamin-like substances

– D-biotin, Ergocalciferol, Choline chloride, Folic acid, Menadione, Myo-Inositol, Niacinamide, Nicotinic acid, p-Aminobenzoic acid, D-pantothenic acid, Pyridoxal hydrochloride, Pyridoxine hydrochloride, Retinol acetate, Riboflavin, α-Tocopherol phosphate, Thiamine hydrochloride; Amino acids – L-Alanine, L-Arginine hydrochloride, L-Aspartic acid, L-Cysteine, L-Cystine, L-Glutamine, L-Glutamic acid, L-Glycine, L-Histidine, L-Isoleucine, L-Leucine, L-Lysine, L-Methionine, L-Phenylalanine, L-Proline, L-Serine, L-Threonine, L-Tryptophan, L-Tyrosine, L-Valine, Adenine hemisulfate, Adenine, Adenosine, Hydroxyproline; Mineral substances; And others. The drug is administered as a tonic agent in complex therapy in the treatment of cattle, horses, pigs, fur animals, dogs, cats, and poultry. Used in cases of anemia, hypovitaminosis, infectious and invasive diseases, diseases of the reproductive system, to stimulate estrus, as well as in case of poisoning; in the postoperative period; as a prophylactic in preparing animals for exhibitions, competitions, and transportation.



# PRODUCTS

## ANTIBIOTICS External

### FLOXY-SPRAY wound healing anti-inflammatory spray

#### Composition

100 ml of solution contains following active substances:

Florfenicol - 2.5 g;

Gentian violet - 0.3 g. Excipients.

#### Pharmacological properties

Florfenicol is derivative of tiamphenicol. Florfenicol acts bacteriostatically on Gram-positive and Gram-negative bacteria. Gentian violet belongs to the group of rosaniline derivatives, which belongs to medicinal dyes with an expressed antiseptic effect. FLOXY-SPRAY due to external application acts locally and practically does not penetrate into the circulatory system.

Treatment of animals with omphalitis, panaritium, interdigital dermatitis, as well as traumatic skin lesions (wounds, cracks, scratches), traumatic nipple injuries, infectious lesions of horns and hooves (including necrobacteriosis), trophic ulcers.



## ANTIPARASITICS

### CLOSIVERON injectable solution of closantel and ivermectin

#### Composition

1 ml of the drug contains active substance:

Ivermectin – 8 mg,

Closantel – 100 mg (equivalent to 108,9 mg Closantel sodium Dihydrate);

Excipients.

#### Pharmacological properties

CLOSIVERON is a broad-spectrum combined antiparasitic drug containing ivermectin and closantel. Its components act synergistically by disrupting enzyme activity and metabolic processes in parasites. Ivermectin, derived from compounds produced by Streptomyces avermitilis, provides strong insecticidal, acaricidal and nematocidal activity with relatively low toxicity. Closantel, a salicylanilide derivative, has a prolonged effect against endo- and ectoparasites by interfering with energy metabolism and ATP formation, leading to parasite death. It is effective against liver flukes, gastrointestinal nematodes, gadfly larvae and scabies mites in cattle, sheep and goats. Closantel is rapidly absorbed after subcutaneous or intramuscular administration, while therapeutic concentrations are maintained for 10–12 days. At recommended doses, the product has no embryotoxic or teratogenic effects.



### DORAN injectable solution of Doramectin

#### Composition

1 ml of the drug contains an active substance:

Doramectin – 10.0 mg.

Excipients

#### Pharmacological properties

DORAN is a ready-to-use sterile solution containing the active substance doramectin (10 mg/ml). Doramectin is a new substance of the avermectin group, has a wide range of systemic nematocidal, insecticidal and acaricidal effects, has larvicidal and ovicidal properties. It modulates the activity of chlorine ions in the nervous system and muscles of nematodes and arthropods. By binding to specific receptors, it increases the permeability of synaptic membranes for chlorine ions, which leads to the blockade of the activity of nerve and muscle cells of nematodes and arthropods, which causes paralysis and death of parasites.

The drug in recommended doses does not have mutagenic, teratogenic, or embryotoxic effects.

DORAN is easily absorbed from the injection site, is highly effective and has no negative effect on the animal's body. The pharmacokinetic properties of doramectin ensure long-term maintenance of therapeutic concentrations of the drug in the blood of animals and protect them from parasitic diseases and reinvasion for a long time.



### IVERON-10 solution of ivermectin for injection

#### Composition

1 ml of the drug contains an active substance:

Ivermectin – 10.0 mg.

Excipients.

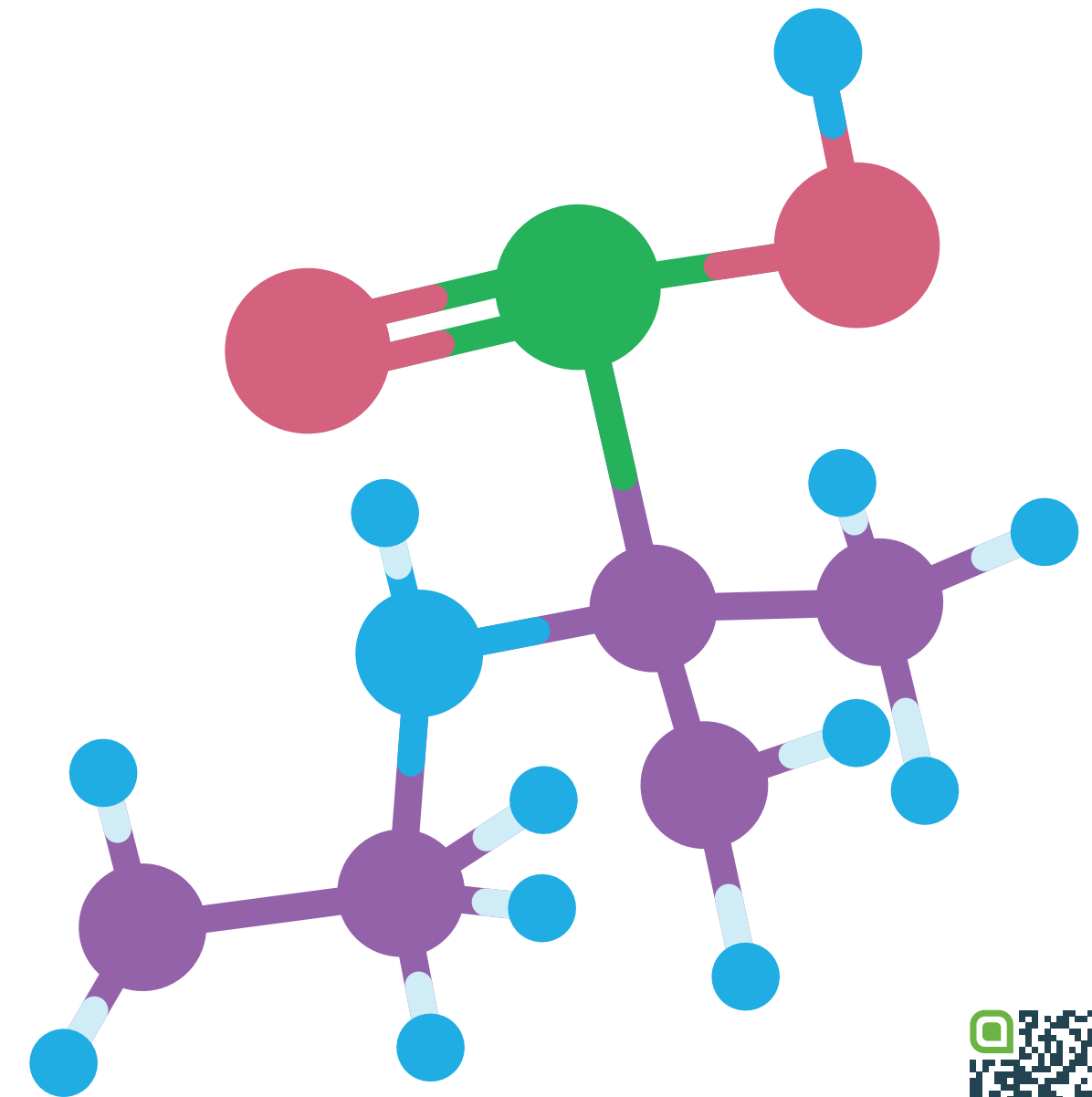
#### Pharmacological properties

An active substance of the drug is Ivermectin belonging to the class of Avermectin compounds, which are produced by microorganisms of Streptomyces avermitilis group.

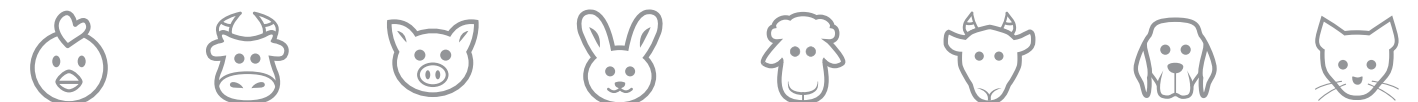
Ivermectin is highly effective, has a wide spectrum of activity (insecticidal, acaricidal, and nematocidal activity), and is relatively low toxic. Treatment of cattle, sheep and pigs affected by helminthosis: gastrointestinal and lung nematodosis, entomosis, mange, lousiness, sarcoptosis.



# PHARMACEUTICALS



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# ANTIBIOTICS Oral

## ENROCOLIN solution of enrofloxacin and colistin sulphate

### Composition

100 ml of the drug contains active substances:

Enrofloxacin – 10.0 g,

Colistin sulphate — 100 000 000 IU; Excipients.

### Pharmacological properties

Enrocolin is a complex drug; its therapeutic effect is caused by a synergistic effect of active ingredients of the product: enrofloxacin and Colistin sulphate. Enrofloxacin belongs to the group of fluoroquinolones, it inhibits synthesis of DNA in nucleus of cells of microorganisms. The product has bactericidal action against Gram-positive and Gram-negative microorganisms. Colistin is an antibiotic of the group of polymyxins, as part of the formulation has bactericidal effect on Gram-negative bacteria. Treatment of small ruminants, calves before 3 month of age, swine and poultry with respiratory and digestive tract diseases caused by microorganisms susceptible to Enrofloxacin and Colistin.

## ENROXAN-100 solution of enrofloxacin

### Composition

1 ml of the drug contains active substance:

Enrofloxacin – 100 mg;

Excipients.

### Pharmacological properties

Enrofloxacin is a chemotherapeutic drug of the group of fluoroquinolones (derivative uinolonecarboxylic acid). Enrofloxacin shows antimicrobial activity and is effective against different types of Gram-negative and Gram-positive microorganisms, as well as against *Mycoplasma* spp. and *Chlamydia* spp.. Treatment of swine, calves with mycoplasmosis, wound and secondary infections, as well as respiratory, digestive and urinary tract diseases and skin damages, treatment of domestic poultry with colibacillosis, mycoplasmosis, salmonellosis, pasteurellosis, staphylococcal and streptococcal infections caused by microorganisms susceptible to Enrofloxacin.

## TILMICON-250 solution of tilmicosin

### Composition

100 ml of the drug contains following active substance:

Tilmicosin – 25.0 g;

Excipients.

### Pharmacological properties

Tilmicosin is a semi-synthetic antibiotic of macrolides group that in low concentration acts bacteriostatically and in high concentration has a bactericidal effect against Gram-positive and Gram-negative microorganisms. The mechanism of product action is to inhibit protein synthesis in the bacterial cell by binding to 50S-ribosomal subunits. Treatment in case of respiratory diseases caused by *Mycoplasma bovis*, *M.dispar*, *Pasteurella multocida*, *P.haemolytica* and other microorganisms, susceptible to Tilmicosin.

## FLORTRIM solution of enrofloxacin and trimethoprim

### Composition

1 ml of the drug contains the following active ingredients:

enrofloxacin – 100 mg,

trimethoprim – 50 mg.

Excipients

### Pharmacological properties

Enrofloxacin–trimethoprim is a broad-spectrum antibacterial combination for systemic veterinary use. Enrofloxacin provides bactericidal activity against gram-positive and gram-negative bacteria, *Mycoplasma* spp. and *Chlamydia* spp. by inhibiting bacterial DNA replication. Trimethoprim complements its action with bacteriostatic activity against key bacterial pathogens by blocking folic acid metabolism. Both components are rapidly absorbed after oral administration, well distributed in tissues and body fluids, and mainly excreted through the kidneys.

## FLOCINE-300 solution of florfenicol

### Composition

100 ml of preparation contains following active substance:

Florfenicol – 10 g;

Additional ingredients

### Pharmacological properties

Florfenicol is derivative of tiamphenicol, in which hydroxyl group is substituted by fluorine atom that induces its antibacterial activity against acetyltransferase bacteria, sensitive to chloramphenicol. Florfenicol acts bacteriostatically on Gram-positive and Gram-negative bacteria, such as: *Pasteurellasp.*, *Salmonella* spp., *Haemophilus* spp., *Proteus* spp., *Staphylococcus* spp., *Streptococcus* spp., *Fusobacterium necroforum*, *Mycoplasma* spp., *Rickettsia* spp., *Chlamydia* and others. Florfenicol inhibits protein synthesis in bacterial cells.



# ANTIBIOTICS Injectable

## AMOXAN PREMIUM suspension of amoxicillin trihydrate, micronized, L.A.

### Composition

1 ml of the drug contains active substance:

Amoxicillin as micronised Amoxicillin trihydrate of hight chemical purity – 150.0 mg. Excipients.

### Pharmacological properties

Amoxicillin is an antibiotic with wide bactericidal action belonging to the group of Aminopenicillins. It blocks the synthesis of bacterial cell walls, inhibits the activity of transpeptidase and carboxypeptidase enzymes, and causes osmotic imbalance, leading to the death of microorganisms at the stage of their growth. Treatment of animals with diseases of the digestive tract, respiratory organs, and urogenital system, as well as diseases of joints, skin and soft tissues, caused by pathogens susceptible to Amoxicillin.



## CLAMOXAN suspension of amoxicillin trihydrate and clavulanic acid

### Composition

1 ml of the the drug contains the following active substances:

Amoxicillin (as Amoxicillin trihydrate) – 140 mg;

Clavulanic acid (as potassium clavulanate) – 35 mg.

Excipients.

### Pharmacological properties

Klamoxan is a combination antibacterial drug containing amoxicillin, a semi-synthetic broad-spectrum penicillin antibiotic, and clavulanic acid, a  $\beta$ -lactamase inhibitor. Amoxicillin disrupts the synthesis of the bacterial cell wall, and clavulanic acid protects it from destruction by  $\beta$ -lactamases, providing an effect on resistant strains. Klamoxan is effective in infections of the respiratory, genitourinary and skin systems, mastitis and leptospirosis. It ensures rapid recovery of animals and reduces economic losses.



## CEFTIFUR-50 suspension of ceftiofur

### Composition

1 ml of the drug contains active substance:

Ceftiofur (as ceftiofur hydrochloride) – 50 mg.

Excipients.

### Pharmacological properties

*Ceftiofur is a 3rd generation cephalosporin antibiotic.* The mechanism of its bactericidal action consists in inhibiting the functional activity of the bacterial enzymes transpeptidases and carboxypeptidases, which are involved in the synthesis of the main component of the cell wall of microorganisms – peptidoglycan, which leads to a violation of the osmotic balance and the destruction of the bacterial cell. Treatment of animals with acute postpartum metritis, necrobacteriosis, as well as respiratory diseases caused by microorganisms susceptible to Ceftiofur.



## ENROXAN MAX suspension of enrofloxacin, L.A.

### Composition

1 ml of the drug contain active substance:

Enrofloxacin – 100 mg.

Excipients.

### Pharmacological properties

Enrofloxacin is a chemotherapeutic preparation belonging to the group of fluoroquinolones. It inhibits DNA-gyrase synthesis in cells of microorganisms. The drug has a high bactericidal effect against Gram-positive and Gram-negative microorganisms, as well as against *Mycoplasmas* (*Mycoplasma* spp.) and *Chlamydia* spp. Treatment of cattle and pigs in case of respiratory diseases and digestive tract infections, caused by pathogens, susceptible to Enrofloxacin.



## PHARMAXIN-200 solution of tylosin tartrate

### Composition

1 ml of the drug contains active substance:

Tylosin tartrate – 200 mg.

Excipients.

### Pharmacological properties

Tylosin is an antibiotic of the macrolide group, active against Gram-positive and Gram-negative microorganisms. Mycoplasmas are particularly susceptible to Tylosin, as well as *Chlamydia* spp. and *Rickettsia* spp. Treatment of animals suffering from necrotizing pododermatitis (caused by *Fusobacterium necrophorum*), metritis (caused by *Arcanobacterium pyogenes*), and respiratory diseases (caused by *Pasteurella multocida* and *Arcanobacterium pyogenes*) sensitive to tylosin.



## TIAPLASMINE-100 solution of tiamulin hydrogen fumarate

### Composition

1 ml of the drug contains following active substance:

Tiamulin (as tiamulin hydrogen fumarate) – 100 mg;

Excipients.

### Pharmacological properties

Tiamulin is a bacteriostatic semi-synthetic antibiotic of the pleuromutilin group, which acts at the ribosomal level, blocking protein synthesis in the bacterial cell. Treatment of pigs affected by dysentery, ileitis (proliferative enteropathy), spirochetal enterocolitis, enzootic bronchopneumonia, Actinobacillus pleuropneumonia, and mycoplasmal arthritis caused by pathogens susceptible to Tiamulin.



# ANTIBIOTICS Powders

## AMOXAN-500 powder of amoxicillin trihydrate

### Composition

100 g of the drug contains active substance: Amoxicillin (as Amoxicillin trihydrate) – 50 g; Excipients.

### Pharmacological properties

Amoxicillin is an antibiotic of wide bactericidal action belonging to the group of  $\beta$ -lactame antibiotics. It blocks the synthesis of bacterial cell walls, inhibits enzyme activity of transpeptidase and carboxypeptidase, and causes violations of osmotic pressure in bacterial cell that leads to the death of the bacteria at the stage of their growth. The drug is active against Gram-positive and Gram-negative bacteria. Treatment of pigs and poultry (broilers, young birds, turkeys and turkey-poults) in case of digestive tract diseases, respiratory and urogenital systems diseases, as well as diseases of the skin and soft tissues caused by pathogens susceptible to Amoxicillin.



## COLIDOXYN powder of doxycycline hyclate and colistin sulphate

### Composition

1 g of the drug contains active substances: Doxycycline hyclate – 250 mg; Colistin sulfate – 2400000 IU. Excipients.

### Pharmacological properties

Doxycycline is a bacteriostatic antibiotic, belonging to the group of tetracyclines. It has a broad spectrum of antimicrobial effect against Gram-positive and Gram-negative bacteria, as well as against mycoplasmas, *Rickettsia* spp. and *Chlamydia*. Colistin is an antibiotic from the group of Polymyxins, which are synthesized by aerobic spore-forming *Bacillus polymyxa*. Colistin as part of the formulation has a bactericidal effect against Gram-negative bacteria. Treatment of animals with septicemia and respiratory diseases (bronchopneumonia, pleuropneumonia, atrophic rhinitis, etc.), in case of the digestive tract diseases (colibacillosis, salmonellosis).



## COLITYL P powder of colistin sulphate and tylosin tartrate

### Composition

1 g of the drug contains following active substances: Tylosin tartrate– 50 mg; Colistin sulfate – 1 000 000 IU. Excipients.

### Pharmacological properties

Colityl is a complex drug; its therapeutic impact is caused by a synergistic effect of product's active substances tylosin tartrate and Colistin sulfate. Tylosin is a member of the macrolide group of antibiotics. Tylosin as part of the formulation has bacteriostatic action against *Mycoplasmas* (*Mycoplasma* spp.), Gram-positive bacteria; Gram-negative bacteria, as well as against *Chlamydia*. Treatment of calves up to 3 months of age, pigs and poultry in case of respiratory diseases and digestive tract infections.



## DOXAN-50 powder of doxycycline hyclate

### Composition

1 g of the drug contains an active substance: Doxycycline hyclate – 500 mg; Excipients.

### Pharmacological properties

Doxycycline is a bacteriostatic antibiotic, belonging to the group of tetracyclines. It has a broad spectrum of antimicrobial effect against Gram-positive and Gram-negative bacteria, as well as against mycoplasmas, *Rickettsia* spp. and *Chlamydia*. Treatment of animals with septicemia and respiratory diseases (bronchopneumonia, pleuropneumonia, atrophic rhinitis, etc.), in case of the digestive tract diseases (colibacillosis, salmonellosis).



## PHARMADOX P powder of doxycycline hyclate and tylosin tartrate

### Composition

1 g of the drug contains following active substances: Doxycycline hyclate – 100 mg, Tylosin tartrate – 100 mg; Excipients.

### Pharmacological properties

Pharmadox is a complex drug formulation, which is composed of Doxycycline and tylosin. Doxycycline is a semi-synthetic antibiotic of the tetracyclines group. Doxycycline has a broad spectrum of antimicrobial action against Gram-positive and Gram-negative bacteria. Tylosin is a member of the macrolide group of antibiotics, is active against Gram-positive and Gram-negative bacteria. Treatment of animals with septicemia and respiratory diseases (pneumonia, enzootic pneumonia, atrophic rhinitis, etc.), digestive tract (colibacillosis, salmonellosis).



## SPECTOLIN powder of lincomycin hydrochloride, spectinomycin sulfate

### Composition

1 g of the drug contains the following active ingredients: lincomycin hydrochloride – 222.0 mg; spectinomycin sulfate – 444.7 mg.

### Pharmacological properties

Lincomycin–spectinomycin is an antibacterial combination for systemic veterinary use. Lincomycin acts mainly against gram-positive bacteria, some gram-negative microorganisms, *Serpulina hyodysenteriae* and *Mycoplasma* spp., inhibiting protein synthesis at the 50S ribosomal subunit. Spectinomycin targets mainly gram-negative bacteria and mycoplasmas by binding to the 30S ribosomal subunit. The components show in vitro synergy against anaerobes involved in swine dysentery. Lincomycin is bioavailable after oral administration, while spectinomycin is poorly absorbed and is excreted mainly unchanged in feces.

