



# PLEDGE OF YOUR ANIMALS HEALTH



# VETERINARY DRUGS

## PRODUCT CATALOGUE 2017





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# About company

Uzbek-British-Russian Joint Venture  
«UZBIOKOMBINAT» LLC, TM BIVECO

JV «Uzbiokombinat» TM Biveco is a new modern company in the field of animal health. The philosophy of our company is based on customer-oriented and providing only high-quality products.

The company began operations in 2014. During such a short period of activity, the company became a leader in the veterinary pharmaceuticals market and was recognized as a producer of high quality preparations for veterinary medicine in Uzbekistan. Currently, the company actively cooperates with more than 300 veterinary pharmacies, livestock and poultry farms in Uzbekistan.

Our production includes more than 40 preparations for large and small cattle, poultry and rabbits, in the form of tablets, suspensions, injection solutions, powders and ointments. We also actively introduce new modern effective drugs on an ongoing basis.

Production sites of pharmaceutical products are developed in accordance with the requirements of the international rules of GMP, which are the basis for the production of high-quality pharmaceutical products.

The plant uses only raw materials of impeccable quality. All the ingredients of the drugs undergo the strictest control and are carefully selected by our qualified technologists.



The control and analytical laboratory of the enterprise is equipped with modern high-precision measuring devices, which allows to have complete control of the production cycle at all its stages and the finished formulation.

### **OUR ADVANTAGES**

- European quality of products
- Modern equipment
- Compliance with GMP and ISO standards
- Closed production infrastructure
- Modern Control and Analytical Laboratory
- Multilevel water treatment system
- Multistage air filtration
- Highly qualified specialists
- Online consulting services







# IVERMECTIN 10

Suspension for injections

1 ml contains:

Ivermectin 10 mg

## DESCRIPTION:

Ivermectin belongs to the group of avermectins and acts against internal and external parasitic diseases in animals

## INDICATIONS:

Treatment of gastrointestinal roundworms, lice, lungworm infections, oestriasis and scabies in Horses, calves, cattle, goats, sheep, swine, dogs and cats

## CONTRA INDICATIONS:

Administration to lactating animals.

## SIDE EFFECTS:

When ivermectin comes in contact with soil, it readily and tightly binds to the soil and becomes inactive over time.

Free ivermectin may adversely affect fish and some water born organisms on which they feed.

## DOSAGE:

For subcutaneous administration.

Horses, calves, cattle, goats, sheep, dogs and cats:

1 ml. per 50 kg. body weight.

## WITHDRAWAL TIMES:

- For meat

Calves, cattle, goats and sheep: 28 days.

- For milk - 7 days

## WARNING:

Do not permit water runoff from feedlots to enter lakes, streams or ponds.

Do not contaminate water by direct application or the improper disposal of drug containers.

Dispose of containers in an approved landfill or by incineration.

## PACKING:

Vial of 10, 50, 100 ml.







# KLOZANTEЛ 50

Solution for injections

1 ml contains:

Closantel 50 mg

## DESCRIPTION:

Closantel is active against fasciola and hypoderma spp.

## INDICATIONS:

Prophylaxis and treatment of worminfections in calves, cattle, goats and sheep like Fasciola, Hypoderma and Oestrus spp.

## CONTRA INDICATIONS:

Administration to lactating animals.

## SIDE EFFECTS:

Overdoses can cause colic, coughing, excessive salivation, excitation, hyperpnoea, lachrymation, spasms, sweating and vomiting.

## DOSAGE:

- Cattle: Administer in a single dose:

0.5 ml/10 kg of body weight in case of distomatosis and gastrointestinal nematode infections.

1 ml/10 kg of body weight (5 mg of closantel/kg of body weight) in case of hypodermosis.

Subcutaneous or intramuscular route.

- Sheep: Administer in a single dose:

1 ml/10 kg of body weight in case of distomatosis.

0.5 ml/10 kg of body weight in case of oestrosis and gastrointestinal nematode infections.

Subcutaneous route.

It is recommended to divide dose between several injections sites.

## WITHDRAWAL TIMES:

- For meat: 28 days.

## WARNING:

Keep out of reach of children.

## PACKING:

Vial of 50 and 100 ml.





# MONEZOL

Oral solution

1 ml contains:

Ivermectin

2 mg

Praziquantel

40 mg

## CHEMICAL COMPOSITION AND PHARMACOLOGICAL PROPERTIES

Monezol is a wide range of antihypertensive agents that are effective against mature and incomplete nematodes and cestodes as well as trematodes. The drug is exposed to a wide range of effects, which leads to the death of mature and pelvic forms of the helminthes.

### INDICATIONS:

The drug is used for deworming in cattle, sheep, goats, pigs, horses:

- gastrointestinal nematodoses (hemorrhage, bunostomosis, esophagostomy, nematoderosis, ostertagiosis, habertosis, cooperiosis, strongyloidosis, trioxstrongylose, giostrongylose, paraskaridosis, ascaridosis);
- cestodoses (moniezyosis, avitellinosis, systemichesiosis);
- pulmonary nematodoses (dictiolarosis, protostrongylose, myulniosis, neostrongylose, cystocaulosis, metastrongillois);
- trematodoses (fascioliosis dicotoxic paramfistomatosis),

## DOSAGE AND ADMINISTRATION

Monezol is assigned to large and small cattle, pigs and agricultural birds with a therapeutic purpose once per os with cestodias, nematodes of the gastrointestinal tract and lungs, and also sheep in estrogen.

For large and small cattle, monesol is used for nematodes of the gastrointestinal tract (gemnochiasis, bunostomosis, esophagostomosis, nematodes, haberthyosis, co-operaosis, ostertagios, strongyloidiasis, trichostrongylosis, trichocephalosis, neosarciosis) - 1 ml per 20 kg, with nematodes of the lungs (diktiokaulez, mulleriosis, cystokaulez, protostrongylease) and cestodozes of c.c. (moniesiosis, avitellinosis, tizanosiosis) - 1 ml per 10 kg of animal mass.

For sheep in estrogen, the individual dose of the drug is increased to 1 ml per 10 kg of animal mass.

Pig monesol is used for nematodes (ascaridosis, esophagostomosis, metastronitis, trichocephalosis, strongyloidiasis) individually at a dose of 0.7 ml per 10 kg of animal mass.

Broiler chickens, chickens up to the age of 16 weeks old, geese and ducks, monesole is used for nematodes (gangulteraterakidosis, ascariasis, heterokeridosis) and cestodoza (drepanidotenis, hymenoleptidosis, raetinis), individually or in groups, with food in the morning for two consecutive doses 0.2 ml / kg of bird mass.

Before mass treatments, each series of monesol is tested on a small group of animals (5-7 heads) of different ages and weights. If there are no complications within 3 days, then the entire stock is processed.

**CONTRA INDICATIONS:** Use of the drug is not allowed in acute fascioliasis, in the first half of pregnancy for cattle and horses in the first half of pregnancy, for infected animals and deprived animals, as well as for sheep, goats, and pigs during cattle breeding .

### WITHDRAWAL TIMES:

- For meat: 28 days. - For milk: 3-4 days.





# METSALBEN 2,5%; 10%

Oral solution

1 ml contains:

Albendazole 25 mg/100 mg

**DESCRIPTION:** Albendazole is a synthetic anthelmintic which belongs to the group of benzimidazole-derivatives with activity against a broad range of worms and at a higher dosage level also against adult stages of liver fluke.

## INDICATIONS:

Prophylaxis and treatment of worminfections in Horses, calves, cattle, goats and sheep like:  
 Gastrointestinal worms: Bunostomum, Cooperia, Chabertia, Haemonchus, Nematodirus, Oesophagostomum, Ostertagia, Strongyloides and Trichostrongylus spp.  
 Lung worms: Dictyocaulus viviparus and D. filaria.  
 Tapeworms: Moniezia spp.  
 Liver-fluke: adult Fasciola hepatica.

## CONTRA INDICATIONS:

Administration in the first 45 days of gestation.

## DOSAGE:

For oral administration:

### **Metsalben 2,5%**

Goats and sheep: 2 ml. per 10 kg. b/w  
 Liver-fluke : 3 ml. per 10 kg. b/w  
 Calves and cattle: 3 ml. per 10 kg. b/w  
 Liver-fluke : 4 ml. per 10 kg. b/w

### **Metsalben 10%**

Goats and sheep: 2 ml. per 40 kg. b/w  
 Liver-fluke : 3 ml. per 40 kg. b/w  
 Calves and cattle: 3 ml. per 40 kg. b/w  
 Liver-fluke : 4 ml. per 40 kg. b/w  
 Horses: 7.5 ml. per 100 kg. b/w

## SIDE EFFECTS:

Hypersensitivity reactions.

## WITHDRAWAL TIMES:

- For meat: 14 days.
- For milk: 4 days.

## PACKING:

Bottle of 1000 ml.

SHAKE WELL BEFORE USE.





# METSALBEN 700

Tablets

1 tablet contains:  
Albendazole 700 mg

## DESCRIPTION:

Albendazole is a synthetic anthelmintic which belongs to the group of benzimidazole-derivatives with activity against a broad range of worms and at a higher dosage level also against adult stages of liver fluke.

## INDICATIONS:

Prophylaxis and treatment of worminfections in Horses, calves, cattle, goats and sheep like:

Gastrointestinal worms: Bunostomum, Cooperia, Chabertia, Haemonchus, Nematodirus, Oesophagostomum, Ostertagia, Strongyloides and Trichostrongylus spp.

Lung worms: Dictyocaulus viviparus and D. filaria.

Tapeworms: Moniezia spp.

Liver-fluke: adult Fasciola hepatica.

## CONTRA INDICATIONS:

Administration in the first 45 days of gestation.

## DOSAGE

The tablets are administered orally compulsory at the tongue root, once, in the following doses.

**CATTLE:** 1 tablet per 120 kg; -for treatment of fascioliasis, dicroceliosis paramphistomatosis, ostertagiosis – 1 tablet per 80 kg animal weight.

**SHEEP AND GOATS:** 0,5 (a half) tablet per 60 kg; for treatment of fascioliasis, dicroceliosis, protostrongylidoses – 0,5 (a half) tablet per 50 kg animal weight.

**HORSES:** 1 tablet per 70-90 kg animal weight.

## SIDE EFFECTS:

Hypersensitivity reactions.

## WITHDRAWAL TIMES:

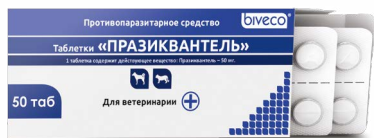
- For meat: 14 days.

- For milk: 4 days.

## PACKING

Polymer cans of 50 tablets.





# PRAZIKVANTEL

Tablets

1 tablet contains:

Praziquantel 50 mg

## DESCRIPTION:

Praziquantel is an anthelmintic, highly effective against both immature and mature forms of adult tapeworms in both dogs and cats. Praziquantel is rapidly absorbed and metabolized by the liver and excreted in the urine and bile.

## INDICATIONS:

For the treatment of adult tapeworms in dogs and cats, including *Dipylidium caninum*, *Taenia pisiformis* and *Echinococcus granulosus*.

## DOSAGE:

- 1 tablet per 10 kg body weight

Tablets of praziquantel preparation are administered once individually orally by animals inside without prior starvation diet. Preparation is put directly into animal's mouth (base of tongue) or feed wrapped into meat, sausage or in a powdered form mixed with food.

## SIDE EFFECTS:

When using in recommended doses, no side effects are observed.

## PACKING:

50 boluses in a carton with blister.





# GENTAMITSIN 10%

Solution for injections

1 ml contains:

Gentamycin 100 mg

## DESCRIPTION:

Gentamicin is a broad spectrum aminoglycoside antibiotic which is highly effective against many strains of gm+ve and gm-ve bacteria: e. coli , salmonella, pasteurilla, vibrio, staph, strept, listeria, erysipelothrix, pseudomonas, klebsiella, shigella, proteus, coryne, serratia enterobacter, treponema, alcaligenes, campylobacter, actinobacillus, arizona paracolom, mycoplasma.

Quickly absorbed from the injection site and retained in the blood and tissues for 12-24 hours; besides, it is eliminated unchanged via kidneys resulting in high concentration in the urinary passages .

## INDICATIONS:

- For ruminants, equines, dogs, cats.
- Respiratory tract infections : bronchitis, pneumonia, tonsillitis, tracheitis etc.
- Alimentary tract infections: gastritis, peritonitis, enteritis, scour, bloody diarrhea, vibronic dysentery, etc.
- Urinary tract infections: nephritis,pyelitis, pyelonephritis, urethritis, cystitis etc.
- Genital tract infections: metritis, cervicitis, and mastitis (supportive treatment)
- Septicaemia, arthritis, skin and wounds infections.
- prevention of early mortality of neonates, very young animals, weaners .

## DOSAGE:

Cattle, small cattle (sheet and goats), horses: 0.5-0.75 ml per 10 kg of animal weight twice a day.

Cats and dogs: first day – 1.0 ml of solution per 10 kg of animal weight twice a day;

second and further days – 1.0 ml of solution per10 kg of animal weight twice a day

Only half dose of the drug is administered in newly born animals during the first days of life.

The course of treatment is 3-5 days.

## WITHDRAWAL TIMES:

- For meat: 45 days; for milk: 3 days.

## REMARKS :

- Not given with general anaesthesia, muscle relaxants, other aminoglycosides or polymyxin products.

- Not given in cases of kidneys dysfunction .

## SIDE - EFFECTS:

Nephrotoxicity, ototoxicity may rarely occur in cat.

## PACKING:

Vial of 50 ml.





# ВЕТИЛОЗИН 50; 200

Solution for injections

1 ml contains:

Tylosin 50mg / 200 mg

## DESCRIPTION:

A macrolide antibiotic which is mainly active against Gm+ve, some Gm-ve bacteria, large viruses, certain spirochaetes and mycoplasma.

## INDICATIONS:

- Respiratory and uro-genital tracts infections, conjunctivitis, tonsillitis, otitis externa, metritis, rhinitis, anthraxes.
- Mycoplasma, calf diphtheria, vibrio, foot rot, listeria, contagious agalactia, shipping fever, leptospira, erysipelas.
- Enteritis, dysentery, arthritis.
- Infections of Chlamydia, clostridia, staph, strept, etc.
- Wounds, pyodermatitis and secondary infections during viral diseases.
- Mastitis (supportive treatment).

## DOSAGE:

Animal type	Dosage	
	Vetilozin-50 (ml/ 10 kg)	Vetilozin-200 (ml/10 kg)
Cattle	0,8-2,0	0,2-0,5
Sheep and goats	1,0-2,0	0,25-0,5
Pigs, dogs and cats	0,4-2,0	0,1-0,5

## WITHDRAWAL TIMES:

- For meat :8 days. - For milk : 4 days.

## REMARKS:

Do not use the drug in conjunction with penicillin (especially with ampicillin and oxacillin), cephalosporin and lincomycin due to significant reduction of tylozin antibacterial effect as well as due to increased sensitivity to drug components.

## SIDE – EFFECTS:

Respiration and pulse can be increased in cattle.

## PACKING:

Vial of 50 ml.





## ОКСИТЕТРАЦИКЛИН 200

Solution for injections

1 ml contains:

Oxytetracycline

200 mg

### DESCRIPTION:

A broad spectrum antibiotic against susceptible Gm+ve bacteria (Staph, Strept, Coryne, Clostridia, Erysipelothrix) and Gm-ve bacteria (E.coli, Pasteurella, Actinobacillus, Moraxella), Mycoplasma, Protozoa, Haemophilus, Spirochaetes, Chlamydia, Leptospira, Rickettsia, Listeria and some large viruses. Provides therapeutic effectiveness of up to (4) days duration following a single treatment. Well tolerated and distributed rapidly and extensively throughout the body tissues, reaching its peak level in short time and remains active for long period.

### INDICATIONS:

For Sheep, Goats, Cattle. Treatment of different cases:

**CATTLE** (mature animals and calves): pneumonia, mastitis, pasteurellosis, pleurisy, diphtheria in calves, foot rot, keratoconjunctivitis, wound infections, anaplasmosis, and secondary bacterial infections at viral diseases.

**SHEEP AND GOATS**: enzootic abortion, foot rot, Metritis, Mastitis, peritonitis, wound infections and pneumonia in goats.

### DOSAGE:

Cattle, Sheep, Goats: 1 ml per 10 kg body weight in one single dose.

In severe cases, repeat the injection dose after 3-5 days.

Inject no more than (20 ml) in cattle and no more than (5 ml) in sheep, goats to be given at the same site.

### WITHDRAWAL TIMES:

- For meat :12 days. - For milk :7 days.

### REMARKS :

- Divide the dosage into separate injection sites to minimize local tissue irritation.
- Transient localized swelling may occur at the site of injection for few days.
- Occasional allergic reaction may occur, in such cases, discontinue use and give antihistaminic (epinephrine etc.) immediately, beside symptomatic treatment, if necessary.
- Not given with penicillins, calcium and iron preparations as interference action may occur.

### PACKING:

Vial of 50, 100 ml.







## ENROFLOKSATSIN 100

Solution for injections

1 ml contains:

Enrofloxacin 100 mg

### DESCRIPTION:

The effective anti-bacterial agent which belongs to fluoroquinolone group.

Has a broad spectrum efficacy against a wide range of Gm +ve, Gm -ve bacteria and mycoplasmas.

### INDICATIONS:

Cattle and ruminants: enteritis, respiratory infections, colibacillosis, pasteurellosis, salmonellosis, mycoplasmosis, clostridiosis, dysentery, leptospirosis;

Rabbits: pasteurellosis, enterotoxemia, enteritis, dysentery, respiratory infections, listeriosis, endometritis, runny nose, rodentiosis etc.;

Fur-bearing animals (mink, fox, Arctic fox), dogs: bacterial disease of gastrointestinal tract and respiratory tract, leptospirosis.

### DOSAGE:

The drug is administered intramuscularly once a day.

CATTLE, RUMINANTS a daily dose is based on 0,5-1ml per 20 kg of animal weight. Treatment is 3-5 days, depending on the disease severity.

FUR-BEARING ANIMALS (mink, fox, Arctic fox), DOGS a daily dose is based on 0,5 ml per 10 kg of animal weight. The course of treatment is 3-5 days depending on the disease severity.

Half dose is administered within 3-5 days for prevention treatment.

To avoid possible pain reaction the drug should be administered in amount not more than 2-3 ml in one place to large animal and not more than 1 ml – to small animals.

### WITHDRAWAL TIMES:

- For meat :14 days. - For milk :3 days.

### REMARKS :

Should not be used simultaneously with tetracyclines, macrolides and chloramphenicol.

Should not be applied to horses, pregnant female dogs as well as to female dogs in lactation. It is restricted to apply this drug to cats under 8 months, dogs less than 12 months and large dog species - up to 18 months. It is not allowed to use Enrofloxatsin-100 in milking animals.

### PACKING:

Vial of 50, 100 ml.





# VETILOZIN 50%

Powder

1 g contains:

Tylosin tartrate 500 mg

## DESCRIPTION:

Tylosin is a macrolide antibiotic with a bacteriostatic action against Gram-positive and Gram-negative bacteria like *Campylobacter*, *Mycoplasma*, *Pasteurella*, *Staphylococcus*, *Streptococcus* and *Treponema* spp. and *Mycoplasma*.

## INDICATIONS:

Gastrointestinal and respiratory infections caused by tylosin sensitive micro-organisms, like *Campylobacter*, *Mycoplasma*, *Pasteurella*, *Staphylococcus*, *Streptococcus* and *Treponema* spp. in calves, poultry, sheep.

## CONTRA INDICATIONS:

Hypersensitivity to tylosin.

Concurrent administration of penicillins, cephalosporins, quinolones and cycloserine.

Administration to animals with an active microbial digestion.

## SIDE EFFECTS:

Diarrhoea, epigastric pain and skin sensitization can occur.

## DOSAGE:

In order to prevent respiratory mycoplasmosis and infectious sinusitis in birds Vetilozin 50% powder is prescribed based on 1 g per 1 liter of water to:

- Breeding poultry aged 1-5, 28-29, 56-57 and 140-141 days;

- Chickens of commercial egg breeds and broilers aged 1-3 and 28 days, turkeys aged 1-3 and 28-29 days.

The same drug dose is administered as treatment in chickens within 3 days and in turkeys for 5 days.

As therapeutic and preventive aid during bronchopneumonia in calves the drug is prescribed individually with water or milk twice a day based on 10 mg per 1 kg of the animal body weight within 7-14 days.

## WITHDRAWAL TIMES:

- For meat: Poultry :5 days. Cattle: 14 days

## WARNING:

Keep out of reach of children.

## PACKING:

Sachet of 250 g.





## MAKROPRIM CONCENTRATE

Powder

100 g contains:

Tylosin 5 g

Sulfadimidine 17,5 g

Trimethoprim 3,5 g

Colistin sulphate 30 mln ME

### DESCRIPTION:

Makroprim Concentrate is a combined antimicrobial drug; it has bactericidal effect against Gram-negative (*E. coli*, *Klebsiella* spp., *Salmonella* spp., *Proteus* spp., *Campylobacter* spp., *Pseudomonas aeruginosa*, *Bordetella* spp., *Pasteurella* spp., *Haemophilus* spp., *Actinobacillus* spp., *Brucella* spp.) and gram-positive bacteria (*Staphylococcus* spp., *Streptococcus* spp., *Listeria monocytogenes*, *Erysipelothrix suis*), mycoplasma, chlamydia, eimeria.

Unique drug formula ensures a broad spectrum of activity against mycoplasmal, bacterial and mixed infection diseases.

Tylosin combined with 50S ribosomal subunit of susceptible organisms blocks ribosome binding point with tRNA (peptidyl-tRNA) that interrupts attachment of amino acids and growth of the peptide chain.

Sulfadimidine and trimethoprim disrupts synthesis of purine and pyrimidine nucleotides by blocking synthesis of dihydrofolic acid.

Colistin blocks phospholipid components of cytoplasmic membrane and disrupts its structure and cause bacteriolysis.

### INDICATIONS:

Makroprim Concentrate is administered for prevention and treatment of farm animals and poultry against diseases caused by microorganisms susceptible to the drug components. The drug is effective for treatment of animals with respiratory diseases, gastrointestinal and genitourinary tract affected by colibacillosis, salmonellosis, erysipelas, chlamydiosis, mycoplasmosis and other diseases, including combined diseases.

### DOSAGE:

The drug is administered orally mixed with feed or water. If necessary, the drug is administered in the group form based on 1.5% premix (1.5 kg of the drug per ton of feed) and give within 5-7 days. The drug mixed with feed retains its activity for two months. Prepared drug solution should be used within 48 hours.

CATTLE, SHEEP AND GOATS 0.1 g per kg animal weight, twice a day with food or water for 5-7 days. POULTRY 1.5 kg per 1000 kg of feed or 1 kg per 1000 liters of water for 3-5 days. During treatment poultry should only receive water containing the drug.

### WITHDRAWAL TIMES:

- For meat: Calves, sheep, goat and poultry :8 days.

- For milk: 5 days.

### PACKING:

Sachet of 500 g.





## IXTIOL OINTMENT 20%

1 g of ointment contains:

Concentration of ichthyol      200mg

### GENERAL INFORMATION

Ixtiol Ointment (Black Ointment).

The ointment by its appearance is a dense homogeneous mass of dark brown color with ichthyol smell.

The drug is available by 10% and 20% ichthyol concentration based on Vaseline. The ointment is pre-packed in 100-1000 g polymer containers.

The drug should be stored in a dry, cool and dark place at the temperature range from +2°C to +30°C. Shelf-life is 3 years under specified storage conditions.

### PHARMACOLOGICAL PROPERTIES

Ixtiol as an ingredient in the ointment has an antiseptic and anti-inflammatory effect. When applied to wounds it narrows vessels and reduces exudation and secretion as well as accelerates regeneration of the damaged tissue.

### DRUG USAGE PROCEDURE

The ointment is used topically against skin diseases (burns, wounds, eczema, dermatitis, furunculosis, and pyoderma), hooves, claws as well as arthritis, neuralgia, tendonitis, tendovaginitis, bursitis, mastitis.

The ointment is applied by smooth thin layer on the damaged surface. The drug is used 1-2 times a day every day or every 1-2 days until recovery.

The ointment causes no complications and has no side effects. There are no contraindications to its use.

Slaughter of animals for meat and use of milk for human consumption during ointment applying is not restricted.





# MASTISAN - A

Suspension

5 ml contains:

Benzylpenicillin	100 000 units
Streptomycin	100 000 units
Sulfadimidine	350 mg

## GENERAL INFORMATION

Mastisan-A is an integrated drug containing such components as benzylpenicillin sodium salt, streptomycin sulfate and sulfadimidine suspended in vegetable oil. One dose (5 ml) of the drug contains 100 000 units of benzylpenicillin and 0.35g of sulfadimidine.

Mastisan-A is a homogeneous oily suspension with white to cream color segregating during storage. The product is prepackaged in glass vials and tubes with capacity of 10, 20, 50, 100, 200 and 250 ml.

The drug should be stored with caution (see List B ) in a dry, dark place and kept out of the reach of children within the temperature range from 0°C to +20°C

Shelf life is 18 months under specified storage conditions.

## PHARMACOLOGICAL PROPERTIES

Mastisan-A has a wide range of antibacterial action due to its constituent antimicrobial components exhibiting synergistic effect. It is active against Gram-positive and Gram-negative organisms (staphylococcus, streptococcus, Proteus, Escherichia coli, Salmonella, Mycoplasma, etc.) It has considerable anti-inflammatory and wound healing effects. In recommended doses it does not have any sensitizing and local irritative, embryotoxic, teratogenic and mutagenic effects. It is eliminated with milk from the body.

## DRUG USAGE PROCEDURE

Mastisan-A is administered for treatment of various forms of udder inflammation and traumatic lesions of the udder and teats skin.

Before drug administration the affected quarter of udder shall be eased and teat shall be disinfected. Content of the vial or tube shall be heated up to 36-39 °C and thoroughly stirred until its content becomes uniform and injected into the affected quarter of udder via streak canal by elastic plastic catheter that shall be screwed onto the tube with drug or put on syringe adapter. After injection affected teat of the udder quarter shall be lightly massaged upwards. Depending on severity of inflammatory process 5 to 20 ml of drug (1-4 doses) shall be injected. If required introduction of the drug shall be repeated every 24 hours until full disappear of inflammatory features.

Treatment of traumatic lesions of skin and mucous membranes of the udder teats shall be carried out by application of drug to the affected surface.

**ADVERSE EFFECTS.** Allergic responses are noted in rare cases.

Individual sensitivity to the drug components serve as contraindication to the drug application.

During the period of treatment milk from affected parts of udder shall be eased into separate containers then sterilized and disposed.





# FLONIKOL - O

Oral solution

1 ml contains:

Florfenicol 100 mg

## DESCRIPTION:

Florfenicol antibiotic has a broad spectrum of antimicrobial effects and high efficiency against gram-positive and gram-negative microorganisms: Staphylococcus spp., Streptococcus spp., Escherichiacoli, Salmonella spp., Pasteurellamultocida, Haemophilus spp., Proteus spp., Enterobacter spp., Shigella spp., Klebsiella spp., Bordetella spp as well as against Mycoplasma spp.

## INDICATIONS:

Flonikol-O is used for prophylactic and therapeutic purposes against bacterial infections of farm poultry including colibacillosis and salmonellosis.

## CONTRA INDICATIONS:

It is restricted to use a Flonikol-O with severe impairment of hematopoietic system, liver and kidneys as well as with individual hypersensitivity to florfenicol.

Do not administer Flonikol-O to hens-layers due to excretion of antibiotic with eggs.

Flonikol-O shall not be used with other antibiotics, indirect anticoagulants, barbiturates, muscle relaxants.

## DOSAGE:

Flonikol-O is administered with drinking water:

- Chickens under 4 weeks - 100 ml per 100 liters of water, which corresponds to a daily dose 20 mg florfenicol per 1 kg of poultry's weight;
- Other age categories of poultry - 200 ml per 100 liters of water within 3 days, and against salmonellosis - within 5 days.

During treatment birds should take drinking water containing Flonikol-O. Prepare fresh medicated water daily.

## WITHDRAWAL TIMES:

- For meat : 6 days.

## PACKING:

Bottle of 1000 ml.





# ENROVIT - O

Oral solution

1 ml contains:

Enrofloxacin 100 mg

## DESCRIPTION:

Enrofloxacin belongs to the group of quinolones and acts bactericidal against mainly Gram-negative bacteria like Campylobacter, E. coli, Haemophilus, Pasteurella, Salmonella and Mycoplasma spp.

## INDICATIONS:

Gastrointestinal infections, respiratory infections and urinary tract infections caused by enrofloxacin sensitive micro-organisms, like Campylobacter, E. coli, Haemophilus, Mycoplasma, Pasteurella and Salmonella spp. in calves, goats, poultry, sheep.

## CONTRA INDICATIONS:

Hypersensitivity to enrofloxacin.

Administration to animals with a seriously impaired hepatic and/or renal function.

Concurrent administration of tetracyclines, chloramphenicol, macrolides and lincosamides.

## SIDE EFFECTS:

Administration to young animals during growth can cause cartilage lesions in joints.

Hypersensitivity reactions.

## DOSAGE:

The drug is administered orally mixed with water once a day.

- Ruminants and rabbits a daily dose is based on 0,5-1ml of the drug per 10 kg (2,5 – 5 mg enrofloxacin per 1 kg). Treatment is 3-5 days, depending on the disease severity.
- Poultry - 10 ml of the drug is diluted with 20 liters of drinking water and is administered within 3 days. In case of salmonellosis the treatment lasts up to 5 days.

During treatment animals and poultry should drink water containing Enrovit-O. Prepare fresh medicated water daily based on consumption needs.

Half dose is administered within 3-5 days for prevention treatment.

## WITHDRAWAL TIMES:

- For meat : 7 days.

- For milk : 5 days.

## PACKING:

Bottle of 1000 ml.





# BUPARVALEK

Solution for injections

1 ml contains:

Buparvaquone 50 mg

## DESCRIPTION:

Buparvaquone is a second-generation hydroxynapthaquinone with novel features that make it an effective compound for the therapy and prophylaxis of all forms of theileriosis.

## INDICATIONS:

For treatment of tick-transmitted theileriosis caused by the intracellular protozoan parasites *Theileria parva* (East Coast fever, Corridor disease, Zimbabwean theileriosis) and *T. annulata* (tropical theileriosis) in cattle. It is active against both the schizont and piroplasm stages of *Theileria* spp. and may be used during the incubation period of the disease, or when clinical signs are apparent.

## CONTRA INDICATIONS:

Due to the inhibiting effects of theileriosis on the immune system, vaccination should be delayed until the animal has recovered from theileriosis.

## SIDE EFFECTS:

Localised, painless, oedematous swelling may occasionally be seen at the injection site.

## DOSAGE:

For intramuscular injection.

The general dosage is 1 ml per 20 kg body weight.

In severe cases the treatment may be repeated within 48 - 72 hours. Do not administer more than 10 ml per injection site. Successive injections should be administered at different sites.

## WITHDRAWAL TIMES:

- For meat :42 days.
- For milk :2 days.

## WARNING:

Keep out of reach of children.

## PACKING:

Vial of 50 ml.







# TOLTROKS 2,5%

Oral soluuiou

1 ml contains:

Toltrazuril 25 mg

## DESCRIPTION:

Toltrazuril is an anticcoidal with activity against Eimeria spp. in poultry:

- Eimeria acervulina, brunetti, maxima, mitis, necatrix and tenella in chickens.
- Eimeria adenoides, galloparonis and meleagrimitis in turkeys.

## INDICATIONS:

Coccidiosis of all stages like schizogony and gametogony stages of Eimeria spp. in chickens and turkeys.

## CONTRA INDICATIONS:

Administration to animals with impaired hepatic and/or renal function.

## SIDE EFFECTS:

At high dosages in laying hens egg-drop and in broilers growth inhibition and polyneuritis can occur.

## DOSAGE:

For oral administration:

- 1000 ml per 1000 litre of drinking water (25 ppm) for continuous medication over 48 hours, or
  - 3000 ml per 1000 litre of drinking water (75 ppm) given for 8 hours per day, on 2 consecutive days.
- This corresponds to a dose rate of 7 mg of toltrazuril per kg of body weight per day for 2 consecutive days.

Note: supply the medicated drinking water as the only source of drinking water. Do not administer to poultry producing eggs for human consumption.

## WITHDRAWAL TIMES:

For meat:

- Chickens:18 days.
- Turkeys:21 days.

## WARNING:

Keep out of reach of children.

## PACKING:

Bottle of 1000 ml.





# SUPERKILLER-E

Suspension

1 ml contains:

Cypermethrin

25%

## PHARMACOLOGICAL PROPERTIES

Effect of the drug is that its components interact with nerve membranes of insects by blocking ion channels, thereby preventing normal conduction of nerve impulses. Fat emulsion preparation contributes to rapid penetration of the active ingredient, which leads to the death of parasites.

Cypermethrin belongs to moderately toxic compounds for warm-blooded animals and in recommended doses does not cause intoxication if applied topically. The drug is stable during storage, it is well emulsified with water to form emulsion with light milky color.

The drug is active against eggs, larvae and adults of pasture and itching scabies, mites, lice, fleas, flies and mosquitoes.

## DRUG USAGE PROCEDURE

**To combat pasture mites of cattle, horses, camels, sheep, goats and pigs** a working emulsion is prepared based on 15 ml Superkiller-E drug with 18 liters of water. Animals are sprayed with emulsion until full wetting of the skin and hair. Repeated treatment of animals shall be carried out with 3 weeks interval before the end of the ticks attack season. **Cattle, camels and pigs are sprayed with working emulsion against scabies** based on 75 ml of the drug diluted with 400 liters of water.

**For prevention of scabies and in case of disease** suspect sheep and goats are sprayed or bathed within 30 seconds to 1 minute with a working emulsion based on 75 ml of the drug per 830 liters of water.

Bath is complemented with a working emulsion based on 75 ml drug per 622 liters of water. In severe cases of scabies affection the animals are sprayed or bathed in the working emulsion prepared on the basis of 75 ml drug per 500 liters of water, submerging the whole animal body into working emulsion within 30 seconds to 1 minute. In this case, the bath is additionally filled with a working emulsion based on 75 ml of the drug per 375 liters of water. If necessary, repeat the treatment after 10 days.

**For elimination of flies** 50 ml of the drug is diluted in 10 liters of water and in order to kill mosquitoes 50 ml of the drug is diluted in 20 liters of water and selectively spray areas they are clustered.

**To kill ticks in livestock facilities** it is necessary to treat such areas with working emulsion based on 50 ml of the drug per 10 liters of water. The area is sprayed based on 200 ml of the working emulsion per 1m<sup>2</sup> of the surface to be treated. In 2,5-3 hours after treatment deactivation of the feed and water facilities shall be carried out by 3% solution of soda ash.

Animals shall be placed into pre-treated facilities not earlier than 3-4 hours after completed desacarisation. During desacarisation of facilities lice, fleas, flies, mosquitoes and cockroaches, spiders and other insects are killed besides mites.

## SIDE EFFECTS AND COMPLICATIONS.

In cases of animal poisoning (depression, slobbering, frequent urination and symptoms of nervous disorders) the following antidotes should be administered subcutaneously: 1% atropine in the dose 1 ml per 100 kg body weight. If symptoms of intoxication do not disappear atropine shall be administered additionally at the same dose.

Animals are treated by spraying with aqueous solution (working emulsion) of «Superkiller-E» drug, for which various spraying disinfection facilities are used such as DUK, VDM, ODN and other mechanisms ensuring fluid pressure 2.5-3 atmosphere as well as stationary shower baths.

During treatment of animals the temperature of the working emulsion should be within 15-25°C and the ambient temperature should not be below 10°C.



# POLYMER-IODINE 10%

Suspension

1 ml contains:

Active iodine 100 mg

## PHARMACOLOGICAL PROPERTIES

This drug due to availability of active iodine has a broad spectrum of activity against nonspore-forming microbes (except for mycobacteria), viruses and fungi. The drug belongs to the group of moderately toxic compounds. Solutions do not have irritating effects and do not cause corrosion of metals.

## DRUG USAGE PROCEDURE

1. Wet disinfection. For preventive and compulsory (regular and final) disinfection during infections related to sensitive group (I group) and stable groups (II group) against main disinfectants, when disinfection quality is controlled by extraction of *Escherichia coli* and *Staphylococcus*, 1% drug solution is administered based on 0.2 - 0.3 l / m<sup>2</sup> of treated surface. Exposure duration during preventive and final disinfection is 3 hours and for regular disinfection is 1 hour.
2. Aerosol disinfection. For preventive and compulsory (regular and final) disinfection during infections related to resistant groups I and II, 1.5% drug solution based on 30 ml / m<sup>3</sup> is applied. Exposure duration during preventive and final disinfection is 3 hours and during regular disinfections - 1 hour.
3. For treatment of respiratory diseases - laryngotracheitis, infectious bronchitis, aspergillosis, infectious rhinotracheitis, bronchitis and bronchopneumonia in calves, young pigs and lambs as well as during mixed infections, 0.5% solution based on 5 - 10 ml / m<sup>3</sup>. Total exposure duration in animals is 60 minutes per day. Treatment is performed 3 - 5 times in every second day.
4. Treatment of wound surfaces. 5% drug solution is used for disinfection of skin and wound treatment in animals (castration, operation, fresh and complicated infections), treatment of umbilical cord, external genitals.
5. Treatment of necrobacillosis and foot rot in cattle, sheep and goats. Affected area shall be previously cleaned from mechanical impurities. Undiluted Polymer-iodine 10% is applied by richly moistened gauze tampon on the cleaned area. Treatment shall be performed three times with one day interval.

## SIDE EFFECTS AND COMPLICATIONS.

No side effects and complications as a result of Polymer-iodine 10% use are revealed under recommended doses and treatment conditions.

## CONTRAINDICATIONS.

Contraindication for use of drug is increased individual sensitivity to iodine in animal. In such case treatment should be discontinued.



# SELEN+VITAMIN E

Solution for injections

1 ml contains:

Vitamin E	50 mg
Selenium	1 mg

## DESCRIPTION:

Vitamin E is a fat-soluble intracellular antioxidant, involved in stabilising unsaturated fatty acids. The main antioxidant property is preventing formation of toxic free radicals and oxidation of the unsaturated fatty acids in the body. These free radicals can be formed in periods of disease or stress in the body. Selenium is an essential nutrient for animals. Selenium is a component of the enzyme glutathione peroxidase, which plays an important role in protection of cells by destroying oxidising agents like free radicals and oxidated unsaturated fatty acids.

## INDICATIONS:

Vitamin E deficiencies (like encephalomalacia, muscular dystrophy, exudative diathesis, infertility problems) in calves, cattle, goats, sheep, dogs, cats, fur-bearing animals and poultry.

## SIDE EFFECTS:

No undesirable effects are to be expected when the prescribed dosage regimen is followed.

## DOSAGE:

For intramuscular or subcutaneous administration:

- Adult animals (cattle, sheep, goats, pigs and horses): 1 ml per 50 kg of animal weight;
- Young farm animals: 0.2 ml per 10 kg of animal weight;
- Dogs, cats and fur-bearing animals: 0.04 ml per 1 kg of animal weight.

Poultry: 130 ml per 1000-2000 liters of water. As prevention treatment administer in chickens starting one day old once every 2-3 weeks, in adult birds - once per month; with treatment purpose - 2-3 times with intervals 1-2 weeks.

## WITHDRAWAL TIMES:

None.

## WARNING:

Keep out of reach of children.

## PACKING:

Vial of 50 ml.





# TRIVITAMIKS

Solution for injections

1 ml contains:

Vitamin A	30000 ME
Vitamin D3	40000 ME
Vitamin E	20 mg

## DESCRIPTION:

Vitamin A is involved in the process of formation and preservation of function of epithelial tissues and mucous membranes, is important for fertility and is essential for vision. Vitamin D3 regulates and corrects calcium and phosphate metabolism in blood and plays an important role in the uptake of calcium and phosphate from the intestines. Especially in young, growing animals vitamin D3 is essential for the normal development of skeleton and teeth. Vitamin E is as a fat-soluble intracellular antioxidant, involved in stabilising unsaturated fatty acids, thereby preventing toxic lipo-peroxides formation. Furthermore, vitamin E protects the oxygen-sensitive vitamin A from oxidative destruction in this preparation.

## INDICATIONS:

- Prevention or treatment of vitamin A, vitamin D3 and vitamin E deficiencies in farm animals.
- Prevention or treatment of stress (caused by vaccination, diseases, transport, high humidity, high temperatures or extreme temperature changes).
- Improvement of feed conversion.

## REMARKS:

Allergic reaction may occur. Give in such case, epinephrine or antihistamines.

Do not exceed the prescribed doses in order to avoid Vitamins toxicity which lead to numerous health disorders.

## DOSAGE:

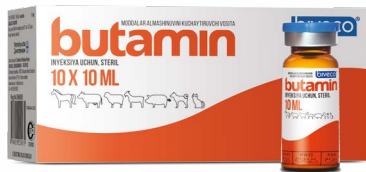
Administered intramuscularly, subcutaneously or orally at the following doses (per animal)

Animal type	Intramuscularly or subcutaneously, ml	Orally, drops
Cattle	2,5	5
Horses	2,0	4
Growing horses, calves	1,5	3
Sheep and goats	1,0	2
Lambs	0,5	1
Pigs	1,5	3
Piglets	0,5	1
Goose and turkey	-	1
Chickens	-	1 per three birds

## PACKING:

Vial of 100 ml.





# BUTAMIN 10ML

Aqueous solution for parenteral use.

1 ml contains:

Butafosfan	100 mg
Vitamin B12	0,05 mg

## DESCRIPTION

Butafosfan is an organic phosphorus compound used as an injectable source of phosphorus in animals that takes part in energy metabolism, replenishes serum phosphorus levels, supports hepatic function and stimulates fatigued smooth and cardiac muscle. Its physiological rather than its pharmacological action accounts for its very low level of toxicity. Cyanocobalamin (vitamin B12) assist in various metabolic processes, most notably the formation of red blood cells, and stimulates protein, carbohydrate and fat metabolism.

## INDICATIONS

Butamin is indicated for debilitation by acute or chronic metabolism disorders that result from poor nutrition, inadequate management or disease (e.g. developmental and nutritional disorders in young animals due to rearing disease, and (secondary) ketosis in cows). It can be used for metaphylaxis of infertility, puerperal diseases and in support of sterility treatment. It acts as a roborant in cases of stress, overexertion, exhaustion and reduced resistance, and as a tonic in cases of weakness, secondary anaemia and chilling. Butamin additionally supports muscular physiology, the treatment of infertility, and tetany and paresis as an adjunct to calcium and magnesium therapy.

## CONTRA INDICATIONS

No contra-indications have been identified for Butamin or any of its constituents.

## SIDE EFFECTS

No undesirable effects are known for this product.

## DOSAGE

For intravenous, intramuscular or subcutaneous administration:

Horse and cattle: 5 - 25 ml.	Lambs and kids: 1.5 - 2.5 ml.
Calves and foals: 5 - 12 ml.	Swine : 2.5 - 10 ml.
Goats and sheep: 2.5 - 5 ml.	Piglets: 1 - 2.5 ml.
Goats and sheep: 2.5 - 5 ml.	Dogs and cats : 0.5 - 5 ml.

Poultry :1 ml.

- Repeat daily if required. - In cases of chronic disease: half the dose at intervals of 1 - 2 weeks or less. - In healthy animals: half the dose.

## WITHDRAWAL TIMES:

- For meat : 0 days. - For milk:0 days.

## WARNING:

Keep out of reach of children.

PACKING: Vial of 10 ml





# BUTAMIN-O 1L

Oral solution

1 ml contains:

Butafosfan	100 mg
Vitamin B12	0,05 mg

## DESCRIPTION

A Restorative medicament for poultry that stimulates metabolism.

On appearance the drug resembles a transparent liquid with a color from pink to pink-red that can be easily mixed with water.

## PHARMACOLOGICAL PROPERTIES

Butafosfan contained in the feed supplement improves liver function, stimulates metabolic processes, increases motor activity of smooth muscles and stimulates bone tissue formation.

Vitamin B12 stimulates hematogenesis, nucleic acid synthesis, restores the level of suppressor lymphocytes, participates in methionine synthesis, provides the formation of glycogen, summons stored energy necessary for deoxyribose formation and DNA synthesis.

Butamin-O feed supplement is complex restorative and strengthening supplement normalizing metabolic and regenerative processes, stimulating protein, carbohydrate and fat metabolism, improving body's resistance to adverse environment and growth and development of young animals.

## INDICATIONS

Butamin-O feed supplement can be administered as stimulating and strengthening supplement to birds with metabolism disorders caused by any reasons. Also, this supplement can be used:

- to improve capacity to survival and to solve the bird cannibalism problem
- to improve the resistance to diseases caused by various reasons (bacteria, viruses, helminthes, arachkoentomoses, intoxication) and adverse environment, including thermal stress.
- to normalize liver functions and protein, carbohydrate and fat metabolisms and regenerative processes.
- as a supplement to complex treatment of diseases caused by calcium and magnesium deficiency
- to increase performance, stimulate growth and development of young birds, to improve eggs' quality.

## DOSAGE AND METHOD OF USING

The feed supplement should be administered per os together with water during 4-5 days with the single dose being as follows:

- laying hens and broiler chickens: 2.0 – 3.0 ml per 1 liter of drinking water;
- chickens and replacement chickens: 1.0 – 1.5 ml per 1 liter of drinking water;
- broiler chickens: 20 ml per 1 liter of drinking water to relieve heat stroke.

## RESTRICTIONS

Poultry products made after or during the administration of Butamin-O can be used as food without any restrictions.





# OKSITOTSIN 10 ME/ML

Solution for injections

1 ml contains:

Oxytocin

10 ME

## DESCRIPTION

Oxytocin is a nonapeptide protein hormone which is produced endogenously in the hypothalamus. Oxytocin promotes contractions of the smooth muscular tissue from the oestrogen sensitised uterus and lacteal gland.

## INDICATION

Labour weakness, promotion of involutio uteri, retentio secundinarum, uterus atonia, uterus haemorrhages and treatment of agalactia post partum.

## CONTRA INDICATIONS

Unopened cervix. Wrong position of foetus or uterus. Obstructive distocia. Hypersensitivity to oxytocin.

## SIDE EFFECTS

Only with overdoses:

A short-lived vasodilatation and blood pressure lowering.

Hyperstimulatio uteri through which the uterus contracts more often and longer.

In a state of spasm of the uterus oxygen supply of the foetus can be put in danger.

Water retention.

Influencing foetal circulation.

## DOSAGE

Animal type	Injection types and doses (ml)		
	Subcutaneously or intramuscularly	Intravenously	Epidurally
Mares and cows	3-6	2-4	1,5-3,0
Sows under 200 kg	3,0	2,0	1,0-1,5
Goats and sheep	1-1,5	0,8-1,0	-
Dogs	0,5-1,0	0,2-0,7	-
Cats	0,3	0,2	0,2

## WITHDRAWAL TIMES:

- For meat:1 day. - For milk:1 day.

## PACKING:

Vial of 50 ml.







# KETOPROFOL 10%

Solution for injections

1 ml contains:

Ketoprofen 100 mg

## DESCRIPTION:

Ketoprofen is a derivative of phenylpropionic acid, and belongs to the non steroidal anti-inflammatory group of drugs. Like all such substances, its principal pharmacological actions are anti-inflammatory, analgesic and anti pyretic.

## INDICATIONS:

Inflammatory and painful conditions of the bones and joints and muscle-skeletal systems in horses. Colic in horses. Respiratory infection and acute clinical mastitis in cattle.

## CONTRA INDICATIONS:

Hypersensitivity to ketoprofen.

Concurrent administration or administration of other non-steroidal anti inflammatory drugs (NSAIDs) within 24 hours.

Administration in animals suffering from cardiac, hepatic or renal disease.

Administration to pregnant mares, because the effects of ketoprofen on fertility, pregnancy or foetal health of horses have not been determined.

## SIDE EFFECTS:

Gastric or renal intolerance due to inhibition of prostaglandin synthesis.

## DOSAGE:

Horses: 1.0ml per 45kg body weight by intravenous injection once daily for up to 3 to 5 days

Cattle: 1.0ml per 33kg body weight by intravenous or deep intramuscular injection once daily for up to 3 days.

Dogs and cats: subcutaneously, intramuscularly, intravenously based on 0.2 ml per 10 kg animal weight once a day for 1-5 days.

## WITHDRAWAL TIMES:

Horses: 1 day

Cattle: following intravenous administration: 1 day, following intramuscular administration: 4 days

There is no withdrawal period necessary for the milk of treated cattle.

## WARNING:

Keep away from children.

Do not store in refrigerator or freezer.

Protect against frost.

## PACKING:

Vial of 50 ml.





# KLOPROSTIN

Solution for injections

1 ml contains:

Cloprostenol

0,25 mg

## DESCRIPTION:

Cloprostenol has luteolytic (resorbable) action on the ovary yellow body, and relieves inhibitory effect of progesterone on hypothalamic-pituitary complex, which promotes growth of follicles in ovaries and increase the level of estrogen in blood, estrum manifestation, oestrus and subsequent ovulation of mature follicles. Interval between drug administration and the first signs of estrus is 48-72 hours.

The drug increases contractile function of uterus and exhibits biological effect only if yellow bodies are actively functioning in ovaries.

## INDICATIONS:

For estrus synchronization in cows and heifers; for treatment of cows with lutein and follicular cysts, corpus luteum persistens, uterus subinvolution and endometritis; for treatment and prevention of functional disorders of the pigs ovaries, inducing and synchronizing farrowing; non-disclosure of uterine cervix in sheep; abortion in animals (by prescription).

## CONTRA INDICATIONS:

Kloprostin contraindicated in pregnant animals as it causes abortion.

## DOSAGE:

### ESTRUS SYNCHRONIZATION IN COWS AND HEIFERS:

2 ml of the drug is administered twice with 10 days interval. The first dose of the drug is administered in any phase of sexual cycle (in cows 40 to 60 days after delivery). In absence of excitation stage on the 11th day after first administration the second dose should be injected, and on the 14th day (after 72-76 hours after second injection) frontal artificial insemination shall be performed (regardless of external signs of estrus) with repeated insemination on the 15th day.

### TREATMENT OF COWS WITH LUTEIN CYSTS IN THE OVARY:

Kloprostin is administered by single dose 4 ml. In order to increase therapeutic efficiency the drug is administered in the same dose simultaneously with subcutaneous injection of gonadotropin PMS (pregnant mare serum) 2.5-3.0 thousand mouse units (MU).

FOR TREATMENT OF FOLLICULAR OVARIAN CYSTS in cows chorionic gonadotropin shall be injected subcutaneously once by 4-5 thousand units or intramuscularly Surfagon drug by 5 ml within three days. After 10-12 days animals that did not display estrus, shall have Kloprostin injected by 2 ml.

Cows with corpus luteum persistens Kloprostin shall be administered with a dose 2 ml and artificial insemination shall be carried out with a first sign of estrus. If it does not occur, it is necessary repeatedly inject 2 ml of the drug on the 11th day after first injection, followed by further insemination in 72-76 hours according to instructions.

## WITHDRAWAL TIMES:

For meat :2 day

PACKING: Vial of 10 ml.





# SURFAGON

Solution for injections

1 ml contains:

Surfagon

10 mcg

## DESCRIPTION:

Parenteral administration of surfagon by pharmacological action is completely identical with natural luliberin, i.e. surfagon solution stimulates discharge of pituitary gonadotropin into blood 2-3 hours maximum after the drug administration. Increased levels of gonadotropin in blood retain for 4-5 hours after the drug administration.

In contrast to natural luliberin biological activity of surfagon solution is 50 times higher, enabling you to use this drug by micro dose and by short treatment courses.

Surfagon is more slowly destroyed under enzymes action than natural luliberin, which ensures its stronger biological effect on the pituitary gonadotrophic function.

## INDICATIONS:

For early induction of sexual cycle.

There are two methods to induce sexual cycle. In the first method the drug is recommended to use in cows after calving without complications in the postpartum period. The second method is recommended to use in cows with endometritis and delayed uterine involution.

## DOSAGE:

Method 1. Surfagon is administered in cows once by 50 mcg on the 5-15th day after calving. Animals after the drug administration can display estrus but insemination should be carried out not earlier than 45 days after calving, i.e. during second estrus.

Method 2. Surfagon shall be administered 8-10 days after calving by a single dose 50 mcg and 18-20 days after calving, regardless of the uterus state, it is necessary to inject estrofan or kloprostin by 250 mcg or 20 mg enzaprost and on the 36th day - 10-25 mcg surfagon. It is not recommended to inseminate cows during induced uterus. Insemination of animals should be carried out not earlier than 45 days after calving.

For treatment of hypo-ovarianism.

For treatment of mild form of hypo-ovarianism surfagon is administered twice: first time - in 8th-12th day of sexual cycle by 50 mcg, second time – after 10 days by 10-25 mcg.

For more apparent form of hypo-ovarianism 1% oil solution of progesterone by 10 cm<sup>3</sup> shall be injected intramuscularly on the 1st, 3rd and 5th days and on the 7th day surfagon by 50 mcg shall be administered.

Prevention of early embryonic mortality.

Surfagon shall be administered by single dose 50 mcg on the 8th-12th day after insemination for increasing functional activity of corpus luteum.

## PACKING:

Vial of 10 ml.





Data for the description of drugs are taken, including from a unified international dossier. When using medicines, it is strongly recommended to use approved instructions for use.



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