

INSTRUCTIONS for Use of the Veterinary Drug Trienrocolum Bio

1. General Information

1.1 The veterinary drug Trienrocolum Bio.

International nonproprietary names: enrofloxacin, colistin, trimethoprim.

Dosage form: oral solution.

1.2 The veterinary medicinal product Trienrocolum Bio (hereinafter referred to as the product) is a liquid ranging in color from light yellow to brown. A small amount of sediment is allowed, which disperses upon shaking.

1.3 Each 1.0 ml of the product contains the following active ingredients: enrofloxacin – 100 mg, colistin sulfate – 1 million IU (equivalent to 52.6 mg), trimethoprim – 50 mg, and the following excipients: propylene glycol, lactic acid, purified water.

1.4 The product is packaged in polymer containers of 100, 500, 1000, and 5000 ml.

1.5 The product should be stored and transported in the manufacturer's packaging, protected from direct sunlight at a temperature from 5°C to 25°C. Keep out of reach of children.

1.6 Shelf life – 2 (two) years from the date of manufacture, provided that storage conditions are observed. Do not use after the expiration date. Disposal of the product should comply with current legislation.

1.7 Dispensing conditions: over-the-counter.

2. Pharmacological Properties

2.1 The product has a broad-spectrum antimicrobial activity. Its components are active against many gram-positive and gram-negative microorganisms: *Escherichia coli*, *Actinobacillus pleuropneumoniae*, *Haemophilus parasuis*, *Mannheimia haemolytica*, *Pasteurella multocida*, *Salmonella*, *Staphylococcus aureus*, *Streptococcus suis*, *Clostridium spp.*, *Leptospira spp.*, *Actinobacillus spp.*, *Bordetella bronchiseptica*, *Campylobacter spp.*, *Corynebacterium spp.*, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae*, *Proteus spp.*, as well as *Rickettsia spp.*, *Mycoplasma spp.* and other microorganisms sensitive to the product's components.

2.2 Enrofloxacin belongs to the fluoroquinolone group; colistin sulfate is a mixture of sulfate polypeptides produced by certain strains of *Bacillus polymyxa*; trimethoprim is a compound from the diaminopyrimidine group.

The mechanism of action is based on blocking DNA synthesis in microbial cells by inhibiting bacterial DNA gyrase, which is enhanced by suppression of bacterial dihydrofolate reductase, leading to disruption of protein synthesis.

2.3 The product is rapidly absorbed from the gastrointestinal tract and distributed throughout organs and tissues. Therapeutic concentrations are reached within 1–1.5 hours after administration and remain effective for 24 hours.

2.4 The product is metabolized in the liver and excreted primarily through the kidneys in the urine. The concentration in urine is significantly higher than in blood. The half-life is 8–10 hours.

2.5 The product is classified as moderately hazardous (Hazard Class III according to GOST 12.1.007-76).

3. Directions for Use

3.1 The product is prescribed for cattle, pigs, and poultry for the treatment of respiratory, gastrointestinal, urogenital diseases, and other conditions caused by microorganisms sensitive to the product's components.

3.2 The product is administered orally with drinking water at the following doses:

- **Broilers, turkeys, replacement pullets, breeding stock** – 0.1 ml/kg of body weight or 1.0 L of the product per 2000 L of water once daily by group treatment for 3–5 days. The medicated solution should be prepared based on the daily water consumption, and during treatment, birds should receive only water containing the product.
- **Pigs** – 0.3 ml/10 kg of body weight once daily for 3–5 days. Before use, the product should be diluted with water at a ratio of 1.0 L of product per 3000 L of drinking water and

administered individually or by group method. In severe cases, the dose can be increased to 0.5 ml/10 kg of body weight.

- **Calves** – 0.25–0.5 ml per 10 kg of body weight, 1–2 times a day for 3–5 days with milk or water.

When used at recommended doses, the product does not cause side effects or complications.

3.3 Contraindicated for concurrent use with bacteriostatic antibiotics (tetracyclines, macrolides), steroids, and indirect anticoagulants. Contraindicated in animals with impaired kidney or liver function, and hypersensitivity to fluoroquinolones, colistin, or trimethoprim.

3.4 The product is not permitted for use in poultry whose eggs are intended for human consumption.

3.5 Slaughter of poultry is allowed 12 days, and pigs and calves – 15 days after the last administration. Meat from animals and poultry slaughtered before the specified withdrawal period may be used to feed carnivorous animals.

4. Precautionary Measures

4.1 Personal hygiene and safety procedures must be observed when handling the product.

5. Claims Procedure

5.1 In the event of complications following the use of the product, administration should be discontinued, and the consumer should contact the state veterinary institution in their area. Veterinary specialists of that institution will investigate compliance with all rules for the product's use in accordance with this instruction. If a negative effect of the product on the animal is confirmed, veterinary specialists will collect sufficient samples for laboratory testing and send them, including at least 3 unopened packages from the same batch, to the State Institution "Belarusian State Veterinary Center" for verification of compliance with regulatory documents at: Republic of Belarus, 220005, Minsk, Krasnaya St. 19A, Tel.: +375 17 290-42-75.

6. Manufacturer Information

6.1 Production Cooperative "Biogel".

Legal address: Republic of Belarus, 220035, Minsk, Timiryazeva St. 65, Office 313.

Production site address: Republic of Belarus, 222680, Minsk Region, Stolbtsovsky District, Derevnoye village.

Produced by order of Private Production and Trade Unitary Enterprise "Letyal", Republic of Belarus, 220075, Minsk, Inzhenernaya St. 1E.

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