

**INSTRUCTIONS**  
**for the use of the veterinary medicinal product Letarox 5%**

**1. General Information**

1.1 The veterinary drug Letarox 5%.

International nonproprietary name of active pharmaceutical substances: toltrazuril.

Dosage form: oral suspension.

1.2 The veterinary medicinal product Letarox 5% (hereinafter referred to as the product) is a suspension of white to cream color. Stratification may occur during storage.

1.3 Each 1 ml of the product contains: 50 mg toltrazuril, and excipients: sodium benzoate, propylene glycol, xanthan gum, citric acid, and distilled water.

1.4 The product is packaged in polymer containers of 100.0, 500.0, and 1000.0 ml.

1.5 Store the product as per List B, in a dry, dark place at a temperature between +5°C and +25°C. Keep out of reach of children.

1.6 Shelf life — two years from the date of manufacture if storage rules are followed. Dispose of expired product in accordance with the law. Do not use after the expiration date.

**2. Pharmacological Properties**

2.1 Toltrazuril is a synthetic coccidiostat with a high level of safety, belonging to the triazine-trione group. Unlike other products, it affects all intracellular stages of *Eimeria* development. Toltrazuril is effective against *Isoospora suis*, *Eimeria arloingi*, *Eimeria scabra*, *Eimeria guevarai*, and other *Eimeria* species parasitizing piglets and calves during their intracellular development stages.

2.2 The mechanism of action of toltrazuril involves the disruption of cell division in schizonts and microgamonts by inhibiting several enzymes involved in pyrimidine synthesis and cellular respiration.

The product does not interfere with the development of immunity to coccidiosis.

2.3 After oral administration, toltrazuril is slowly absorbed in the gastrointestinal tract and exhibits coccidiocidal activity in the mucosal and submucosal layers. Maximum plasma concentration is reached after 24 hours. Bioavailability is approximately 70%. The product is eliminated slowly (elimination half-life about 76 hours), in unchanged form and as sulfone metabolites, via feces and partially via urine.

**3. Directions for Use**

3.1 The product is used to treat coccidiosis in piglets and calves.

3.2 Administer the product orally, individually, as a single dose, according to the recommended dosages:

Table – Dosage of the product

Animal type	Dosage
Piglets (from 3–5 days to 30 days old)	20 mg of toltrazuril per 1 kg of body weight (equivalent to 0.4 ml of the product per 1 kg body weight; minimum dose – 0.5 ml, maximum – 2 ml per animal)
Calves (from 2 weeks to 6 months old)	15 mg of toltrazuril per 1 kg of body weight (equivalent to 3 ml of the product per 10 kg body weight)

Before use, warm the bottle to room temperature and shake well to mix.

3.3 When the product is used in accordance with this instruction, adverse effects and complications are generally not observed.

In the event of allergic reactions (such as diarrhea, decreased appetite, or erythema), antihistamines and symptomatic therapy should be administered to the animal.

3.4 The contraindication for use of the product is individual hypersensitivity of animals to toltrazuril.

3.5 In case of overdose, animals may exhibit reduced appetite and decreased water intake.

3.6 Slaughter of piglets for meat is permitted no earlier than 91 days after the administration of the product. For calves, this period is not less than 70 days. Meat from animals compulsorily slaughtered before the specified withdrawal period may only be used for feeding carnivorous animals

#### **4. Precautionary Measures**

4.1 When handling the product, observe personal hygiene and safety regulations.

#### **5. Claims Procedure**

5.1 In the event of complications after using the product, its use must be stopped. The user should contact the State Veterinary Institution in their area. Veterinary specialists will investigate compliance with the instructions. If a negative effect is confirmed, samples (at least 3 containers from the affected batch) are collected and sent to: State Institution "Belarusian State Veterinary Center", 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, Stolbtsy District, Derevnoe village.

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

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