

TILDIX AVZ

INSTRUCTIONS

on veterinary use of the drug Tildox AVZ

Approved by the Deputy Head of Rosselkhoznadzor Savenkov K.A.

(Developer organization: NVT Agrovetzaschita LLC, Russia, 129329, Moscow, Igarsky passage, 4, h. 2).

Registration certificate number: 77-3-11.20-4683N@VDR-3-11.20/03566

I. General information

Name of the drug for veterinary use:

trade name – Tildox AVZ (Tildox AVZ);

international nonproprietary name of active substances: doxycycline, tylosin.

Dosage form: powder for oral use.

Tildox AVZ contains in 1 g as active substances doxycycline hyclate – 100 mg, tylosin tartrate – 100 mg, and as excipients sodium benzoate, sucrose.

In appearance, the drug is a powder from light yellow to yellow in color.

The shelf life of the medicinal product in the manufacturer's closed packaging, subject to storage conditions, is 2 years from the date of production, after the first opening of the package no more than 3 months.

It is prohibited to use the drug after the expiration date.

The drug is produced packaged 0.5 kg in bags of combined materials; 1 and 10 kg in polymer buckets of the appropriate capacity with lids for the first opening control; 5 and 10 kg in bags of combined materials; 10 g in sachet bags of combined material. It is allowed to pack sachets of 1, 2, 3, 5 and 10 pieces in cardboard packs. It is allowed to supply plastic bags, bags and buckets with a measuring cup or measuring spoon made of polymer material. Each unit of consumer packaging is provided with instructions for use.

The drug is stored in the manufacturer's closed packaging, in a place protected from moisture and direct sunlight, at a temperature from 2 °C to 25 °C. Tildox AVZ should be kept out of the reach of children.

Unused drug is disposed of in accordance with the requirements of the legislation.

Vacation conditions: without a veterinary doctor's prescription.

II. Pharmacological properties

Tildox AVZ belongs to the pharmacotherapeutic group – tetracyclines in combination.

Doxsicyclin, a part of the drug, is a semi-synthetic antibiotic of the tetracycline group, active against gram-positive and gram-negative micro-organisms, including *Bordetella* spp., *Campylobacter* spp., *Escherichia coli*, *Haemophilus* spp., *Pasteurella* spp., *Salmonella* spp., *Staphylococcus* spp., *Streptococcus* spp., *Clostridium perfringens*, *Chlamydia* spp., *Rickettsia* spp., and *Mycoplasma* spp.

The mechanism of bacteriostatic action of doxycyclin is associated with inhibition of the activity of enzymes that catalyze the binding of aminoacyl-tRNA to ribosomal acceptors, which disrupts protein synthesis and microbial cell death.

Tylosin is an antibiotic from the group of macrolides, active against most gram-positive and some gram-negative bacteria, including *Staphylococcus* spp., *Streptococcus* spp., *Bacillus anthracis*, *Corynebacterium* spp., *Clostridium* spp., *Pasteurella* spp., *Erysipelothrix* spp., *Fusobacterium* spp., *Spirochaetes* spp., *Leptospira* spp., *Treponema hyodysenteriae*, *Actinomyces pyogenes*, *Haemophilus pertussis*, *Moraxella bovis*, *Neisseria* spp. The mechanism of bacteriostatic action of tylosin is associated with blocking the protein synthesis of a bacterial cell by coupling with the ribosomal 50S subunit. With oral administration, antibiotics are well absorbed in the gastrointestinal tract and penetrate into most organs and tissues of the animal, reaching maximum concentrations in blood serum after 1.5-2 hours. Doxycycline and tylosin are metabolized to a small extent, are excreted from the body mainly with bile and urine.

Tildox AVZ, according to the degree of exposure to the body, belongs to low-hazard substances (hazard class 4 according to GOST 12.1.007), is well tolerated by animals in recommended doses, does not have embryotoxic and teratogenic properties.

III. Application procedure

Tildox AVZ is prescribed for therapeutic and prophylactic purposes to pigs and farm birds with gastrointestinal and respiratory diseases of bacterial etiology, including pasteurellosis, mycoplasmosis, colibacteriosis, bordetellosis, salmonellosis, dysentery, enzootic pneumonia and other infections whose pathogens are sensitive to doxycycline and tylosin.

Tildox AVZ is prohibited for laying hens, as well as animals with severe liver and kidney dysfunction. Contraindication to the use of the drug is an individual hypersensitivity of animals to the components of the drug.

When carrying out therapeutic measures using the drug Tildox AVZ, the general rules of personal hygiene and safety measures provided for when working with medicines should be observed. In case of accidental contact of the drug with the skin or mucous membranes of the eyes, they should be immediately rinsed with a large amount of clean water. People with hypersensitivity to the components of the drug should avoid direct contact with Tildox AVZ. In case of allergic reactions or accidental ingestion of the drug into the human body, it is necessary to immediately contact a medical institution (have the instructions for use or label with you).

Empty drug packaging may not be used for household purposes and must be disposed of with household waste.

The drug is not recommended for use during pregnancy and lactation. When using the drug to young animals during the period of tooth growth, it is possible to change the color of the enamel. In pigs, allergic reactions to tylosin are possible, manifested in the form of mild edema of the rectum and anus, erythema, itching and respiratory phenomena that quickly pass after discontinuation of the drug.

Tildox AVZ apply:

–pigs mixed with feed or water for drinking individually or in a group way at a dose of 1 g per 10-15 kg of animal weight or 1 g of the drug per 1 liter of water daily for 3-5 days;

–agricultural birds with drinking water or with group feed in a dose of 0.5 – 1 g per 1 liter of drinking water or 0.5 – 1 g of the drug per 10 kg of poultry weight daily for 3-5 days.

With a group method of application, poultry and pigs during the treatment period should receive only water or feed containing the drug. A therapeutic solution or feed is prepared daily. Tildox AVZ is thermally stable, which makes it possible to introduce the drug into the composition of feeds, the production technology of which includes short-term heat treatment.

When using a group drug with drinking water, the calculation of the amount of the mother liquor, when using a medicator, is carried out as follows:

A. Calculate the amount of the drug (Q) in g for 1 day of treatment according to the formula:

$$Q = N \times P \times P_o \times 100 / C_m \text{ (in \%)},$$

where N is the number of animals to be processed;

P – the average weight of the animal, kg;

P_o – therapeutic dose of the active substance preparation, mg/kg;

C_m is the concentration of the active substance in the preparation in %.

B. Calculate the amount of uterine solution (V) for 1 day of treatment according to the formula:

$$V = C \times R \text{ (B \%)} / 100,$$

where, C is the daily water consumption in liters;

R is the regulator of the medicator dispenser in %.

The measured amount of the drug (Q) is dissolved in the calculated amount of water (V) (preferably t = 20-30 °C) with intensive stirring for 5-10 minutes. If necessary, you can add a compatible solvent (acidic or alkaline, depending on the pH of the water) or increase the amount of the mother liquor by increasing the dosage of the medicator. 30-45 minutes after the start of preparation, the mother liquor is ready for use.

When using Tildox AVZ in accordance with this instruction, side effects and complications are usually not observed. With increased individual sensitivity of animals and poultry to the components of the drug and the appearance of allergic reactions, the use of the drug is discontinued and symptomatic treatment is carried out.

Symptoms of overdose when using the drug may manifest as disorders of the gastrointestinal tract.

The drug should not be used in conjunction with muscle relaxants, bactericidal antibiotics, mineral supplements and medications containing calcium, magnesium, iron and aluminum salts, due to a possible decrease in the antibacterial effect.

The peculiarities of the action at the first intake of the drug Tildox AVZ or at its cancellation were not revealed.

Skipping the next dose of the drug should be avoided, as this may lead to a decrease in therapeutic effectiveness. In case of skipping one or more doses, the course of application must be resumed in the prescribed doses and the scheme of application. Slaughter of pigs for meat is allowed no earlier than 8 days; poultry – no earlier than 7 days after the last use of the drug. The meat of animals, including poultry, forcibly killed before the expiration of the specified period, can be used to feed fur-bearing animals.



Name and address of the production site of the manufacturer of the drug product for veterinary use:

AVZ S-P, Russia, 141305, Moscow region, Sergiev Posad, Tsentralnaya str., 1.

Name, address of the organization authorized by the holder or owner of the registration certificate of the drug to accept claims from the consumer: AVZ S-P, Russia, 141305, Moscow region, Sergiev Posad, Tsentralnaya str., 1.

Phone number of the round-the-clock Hotline: 8-800-700-19-93 (toll-free call from Russia).

Information about the drug is available on the website www.avzvet.ru