

Bitox

Deltamethrin

Dosage Form

Concentrate for preparation of an emulsion for external use.
For veterinary use.

Pharmacotherapeutic Group

Ectoparasitic, insectoacaricidal agent.

ATCvet code: QP53AC11

Target Species

Cattle, sheep, goats.

Composition

1 ml of oily concentrate contains:

- **Active substance:** Deltamethrin – 0.05 ml
- **Excipients:** Xylene, calcium dodecylbenzenesulfonate, tristyrilphenol ethoxylates

Description

Oily concentrate, yellowish homogeneous liquid with a specific odor.

Presentation

- 3 ml glass ampoule
- 100 ml white polyethylene bottle
- 1 L white polyethylene bottle
- 5 L white polyethylene canister

Pharmacological Properties

Bitox is based on the synthetic pyrethroid deltamethrin and has a broad-spectrum insectoacaricidal activity.

It is active against mange mites, poultry mites, ixodid ticks, lice, fleas, stable flies, mosquitoes, gadflies, blowfly larvae and other ectoparasites.

The mechanism of action is based on blocking neuromuscular transmission at the level of peripheral nerve ganglia, leading to paralysis and death of parasites.

Bitox is moderately toxic to warm-blooded animals. At recommended doses and concentrations, it does not cause local irritation or allergic reactions. It is toxic to fish and bees.

Indications

Bitox is used exclusively for the control of ectoparasites in animals (mange mites, lice, fleas, ixodid ticks, mosquitoes, flies, gadflies, blowfly larvae).

Method of Administration and Dosage

The product is used as an aqueous emulsion for spraying or dipping.

Working emulsion is prepared immediately before use:

First, the concentrate is mixed thoroughly with a small amount of water (1:4), then gradually added to the bath or spraying system and diluted to the required volume (mix for approximately 10 minutes).

Working emulsion temperature: 15–20°C.

Do not rinse animals after treatment.

Spraying against the wind is not recommended.

Animals are treated in the morning before grazing or during daytime rest.

Psoroptosis (sheep and goats):

- Dipping: 1 L concentrate per 1600 L water
- Spraying: 1 L concentrate per 1000 L water
- Prophylaxis: single treatment
- Treatment: twice at 7–10 day intervals

Ixodid ticks (cattle):

- 1 L concentrate per 1350 L water
- Consumption rate: 2–3 L per animal
- Treatment interval: every 6–7 days

Used solution should be disposed of in a sedimentation tank.

Contraindications

Do not treat sick or weakened animals.

Side Effects

No side effects observed when used at recommended concentrations.

Withdrawal Period

Meat from treated animals may be used for human consumption 5 days after the last treatment.

If slaughtered earlier, meat may be used for feeding carnivorous animals or for meat-and-bone meal production.

Milk must not be used for human consumption for 3 days after the last treatment.

Such milk may be used for animal feeding.

Precautions

Use protective clothing (gown, apron, hat, gloves, goggles, respirator).

Do not smoke, eat or drink during work.

After work, rinse mouth and wash hands and face with soap.

If contact with skin occurs, wash with soap and plenty of water.

Do not reuse empty containers.

Do not allow product to enter water bodies or rivers.

Storage Conditions

Store in a dry place protected from light at temperatures not exceeding 25°C.

Shelf Life

3 years.

Manufacturer

Biotecs LLC, Georgia