

Levamisole 7.5%

Injectable Solution – For Veterinary Use Only

Composition

1 ml of injectable solution contains:

Active substance: Levamisole hydrochloride – 75 mg

Description

Colorless to slightly yellowish transparent liquid.

Pharmacological Properties

Levamisole hydrochloride is an imidazothiazole derivative with a pronounced broad-spectrum nematocidal effect. It is active against larval and adult stages of gastrointestinal and pulmonary nematodes parasitizing animals, including:

- **Cattle and small ruminants:** *Haemonchus spp.*, *Ostertagia spp.*, *Trichostrongylus spp.*, *Nematodirus spp.*, *Bunostomum spp.*, *Oesophagostomum spp.*, *Cooperia spp.*
- **Pigs:** *Ascaris spp.*, *Strongyloides spp.*, *Metastrongylus spp.*, *Oesophagostomum spp.*
- **Dogs:** *Toxocara canis*, *Toxascaris leonina*, *Ancylostoma caninum*, *Uncinaria stenocephala*

The mechanism of action is based on specific inhibition of succinate dehydrogenase, blocking fumarate reduction reactions essential for nematodes. This disrupts bioenergetic processes, causing depolarizing neuromuscular paralysis and death of parasites.

After parenteral administration, levamisole is rapidly absorbed and reaches maximum tissue concentration within 30–50 minutes. Therapeutic levels are maintained for 6–9 hours. The drug is eliminated within 3–4 days, mainly via urine, partially via feces, and in lactating animals via milk.

The product belongs to moderately hazardous substances (Hazard Class 3).

Indications

Treatment of:

Toxocariasis, Toxascaridosis, Uncinariosis, Ancylostomiasis.

Dosage and Administration

Administer once by injection.

- **Cattle:** IM or SC, 1 ml per 10 kg body weight (single dose). Maximum 30 ml for animals over 300 kg.
- **Sheep and goats:** IM or SC, 1 ml per 10 kg body weight (single dose). Maximum 4.5 ml for animals over 65 kg.
- **Pigs:** IM or SC, 1 ml per 10 kg body weight (single dose). Maximum 20 ml for animals over 150 kg.
- **Dogs:** IM or SC, 1 ml per 10 kg body weight (single dose).

Contraindications

- Hypersensitivity to levamisole
- Severely debilitated, exhausted or seriously ill animals
- Young animals under 10 kg body weight

Not permitted:

- Last third of pregnancy in cattle
- Second half of pregnancy in sheep, goats, pigs and dogs

Use in young animals only under veterinary supervision.

Side Effects

When used as directed, adverse reactions are not typically observed.

In case of allergic reactions, discontinue use and administer antihistamines and symptomatic therapy.

Overdose

Possible symptoms: colic, diarrhea, salivation, nausea, vomiting (pigs and dogs), allergic reactions (itching, urticaria).

Symptoms usually resolve spontaneously.

Drug Interactions

Do not use within 10 days before or after treatment with organophosphates, pyrantel, morantel, chloramphenicol, or ethanol.

Withdrawal Period

- **Meat:** 7 days
 - **Milk:** 2 days
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Storage Conditions

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

Keep out of reach of children.

Shelf life: 2 years.

Packaging

10 ml, 20 ml, 50 ml, 100 ml dark glass vials with rubber stopper and aluminum cap.

Pharmacological Group

Anthelmintic agent

ATC vet code: QP52AE01 – Levamisole

Manufacturer:

LLC “Biotecs”

8 Iumashev Street, Tbilisi, Georgia