

Instructions for Use

Biomectin

Ivermectin

Dosage form:

Injectable solution for veterinary use

Pharmacotherapeutic group: Antiparasitic agent

ATCvet code: QP54AA01

Target species: Cattle, small ruminants (sheep, goats), pigs, camels

Composition

1 ml of injectable solution contains:

Ivermectin – 10 mg

Excipients: Polyethylene glycol, Propylene glycol, Water for injection.

Description

Colorless or slightly yellow transparent solution.

Presentation

Injectable solution packed in 10 ml and 20 ml dark glass vials, hermetically sealed with rubber stoppers, aluminum caps and plastic flip-off caps for first opening control; and 50 ml and 100 ml dark glass vials, hermetically sealed with rubber stoppers, aluminum caps and plastic flip-off caps for first opening control, placed in cardboard boxes with package insert.

Pharmacological Properties

Ivermectin belongs to the avermectin group and has a broad-spectrum antiparasitic activity. It is a macrocyclic fermentation product of the actinomycete *Streptomyces avermitilis*.

Ivermectin enhances the release of gamma-aminobutyric acid (GABA), disrupting nerve impulse transmission in parasites, causing paralysis and death.

In mammals, GABA is found only in the central nervous system. Since ivermectin does not readily cross the blood-brain barrier, it is safe for use in these animal classes.

Subcutaneous administration provides higher efficacy compared to oral use. The drug is excreted in urine and bile.

Indications

Used against endo- and ectoparasites in cattle, camels, sheep, goats and pigs.

Cattle and camels

Gastrointestinal nematodes:

Ostertagia ostertagi, *O. lyrata*, *Haemonchus placei*, *Trichostrongylus axei*, *T. colubriformis*, *Cooperia oncophora*, *C. punctata*, *C. pectinata*, *Oesophagostomum radiatum*, *Bunostomum phlebotomum* (adults only), *Nematodirus helvetianus* (adults only), *Nematodirus spathiger* (adults only).

Lungworms:

Dictyocaulus viviparus (adults and L4 larvae).

Warbles (all stages):

Hypoderma bovis, *Hypoderma lineatum*.

Sucking lice:

Linognathus vituli, *Haematopinus eurysternus*, *Solenopotes capillatus*.

Mites:

Sarcoptes scabiei, *Psoroptes bovis*.

Sheep and goats

Gastrointestinal nematodes (adult and larval stages):

Haemonchus contortus, *Ostertagia circumcincta*, *O. trifurcata*, *Trichostrongylus axei* (adults only), *T. vitrinus* (adults only), *T. colubriformis*, *Nematodirus filicollis*, *Cooperia curticei*, *Oesophagostomum columbianum*, *O. venosum*, *Chabertia ovina*, *Trichuris ovis* (adults only).

Lungworms:

Dictyocaulus filaria, *Protostrongylus rufescens*.

Nasal bots:

Oestrus ovis (all stages).

Mites:

Sarcoptes scabiei, *Psoroptes communis (ovis)*.

Pigs

Gastrointestinal nematodes (adults and L4):

Ascaris suum, *Hyostrogylus rubidus*, *Oesophagostomum spp.* (adults only).

Lungworms:

Metastrongylus spp. (adults).

Lice:

Haematopinus suis.

Mites:

Sarcoptes scabiei.

Dosage and Administration

Administered subcutaneously, once.

Cattle, camels, sheep, goats – 1 ml per 50 kg body weight
(equivalent to 0.2 mg ivermectin per kg BW).

Pigs – 1.5 ml per 50 kg BW
(equivalent to 0.3 mg ivermectin per kg BW).

Contraindications

None reported.

Adverse Reactions

Some animals may show pain and inflammatory reaction at the injection site. These reactions disappear without treatment.

Special Warnings

Do not administer intravenously or intramuscularly. Use sterile equipment. Disinfect the injection site to reduce the risk of clostridial infection. In case of infection, treat with appropriate antibiotics.

Inject cattle under loose skin in front of or behind the shoulder; pigs in the neck or behind the ear. Doses exceeding 10 ml should be divided into multiple injection sites.

Treatment against warbles (*Hypoderma lineatum*) should be carried out at the end of the fly season. Killing larvae while located in vital areas may cause adverse reactions (salivation, bloat, dizziness, paralysis).

Animals treated at the end of warble season may be safely retreated in winter against endoparasites and sucking lice.

Withdrawal Period

Meat:

Cattle – 37 days

Sheep, goats, pigs – 28 days

Not recommended for use in lactating dairy animals producing milk for human consumption.

Storage Conditions

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

Keep out of reach of children.

Shelf life: 3 years.

Manufacturer country: **Biotecs LLC, Georgia**