

Selmec

INJECTION



For Veterinary Use Only

COMPOSITION:

Each ml contains
Ivermectin20mg

INDICATIONS:

Selmec injection is indicated for the effective treatment and control of the following harmful species of parasites:

Cattle/ Buffalo/ Sheep/ Goat/ Camel:

Gastrointestinal roundworms: *Ostertagia ostertagi* (adults and fourth stage larvae including inhibited *O. ostertagi*); *O. lyrata* (adults); *Haemonchus placei* (adults and fourth stage larvae); *Trichostrongylus axei* (adults and fourth stage larvae); *T. colubriformis* (adults); *Cooperia oncophora* (adults and fourth stage larvae); *C. punctata* (adults); *Oesophagostomum radiatum* (adults and fourth stage larvae); *Strongyloides papillosus* (adults)

Eye worms: *Thelazia* spp.

Lungworms: *Dictyocaulus viviparus* (adults and fourth stage larvae)

Cattle grubs (internal parasitic stages): *Hypoderma bovis*; *H. lineatum*

Sucking lice: *Linognathus vituli*; *Haematopinus eurysternus*; *Solenopotes capillatus*

Mites: *Sarcoptes scabiei* var. *bovis*; *Psoroptes ovis* (syn. *P. communis* var. *bovis*)

PHARMACODYNAMICS:

Ivermectin is a member of the macrocyclic lactone class of endectocides which have a unique mode of action. Compounds of the class bind selectively and with high affinity to glutamate-gated chloride ion channels which occur in invertebrate nerve and muscle cells. This leads to an increase in the permeability of the cell membrane to chloride ions with hyperpolarization of the nerve or muscle cell, resulting in paralysis and death of the parasite. Compounds of this class may also interact with other ligand-gated chloride channels, such as those gated by the neurotransmitter gamma-aminobutyric acid (GABA).

The margin of safety for compounds of this class is attributable to the fact that mammals do not have glutamate-gated chloride channels, the macrocyclic lactones have a low affinity for other mammalian ligand-gated chloride channels and they do not readily cross the blood-brain barrier.

PHARMACOKINETICS:

At a dose level of 0.2 mg ivermectin per kg a maximum plasma concentration of 35-50ng/ml is reached in about 2 days and the half-life in plasma is 2.8 days. It is also established that ivermectin is carried mainly in the plasma (80%). This distribution between plasma and blood cells remains relatively constant.

DOSAGE AND ADMINISTRATION:

Administer the following dose by subcutaneous injection (under the loose skin in front of or behind the shoulder.)

Cattle / Buffalo / Camel / Sheep / Goat: 1ml per 100 kg body weight.

CONTRAINDICATIONS:

Do not administer intravenously or intramuscularly.

Do not use in dogs and horses.

Do not use in lactating cows whose milk is used for human consumption.

PRECAUTIONS:

Do not treat animals within 35 days of slaughter.

Do not contaminate surface waters or ditches with product or used container.

Store between 15-25 °C in a cool and dry place.

Keep out of the reach of children.

Consult the veterinarian before use.

BP Vet Specs



Selmec
Pharmaceuticals (Pvt) Ltd.

Manufactured by:
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