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IVOMEC® POUR-ON FOR CATTLE

Merial

(ivermectin)

NADA 140-841, Approved by the FDA

Contains 5 mg ivermectin/mL

Parasiticide

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

INTRODUCTION

IVOMEC (ivermectin) Pour-On delivers internal and external parasite control in one convenient low-volume application. Discovered and developed by scientists from Merck Research Laboratories, IVOMEC Pour-On contains ivermectin, a unique chemical entity.

MODE OF ACTION

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.

INDICATIONS

IVOMEC Pour-On applied at the recommended dose level of 500 mcg/kg is indicated for the effective control of these parasites.

Gastrointestinal Roundworms

Ostertagia ostertagi (including inhibited stage) (adults and L4)

Haemonchus placei (adults and L4)

Trichostrongylus axei (adults and L4)

T. colubriformis: (adults and L4)

Cooperia oncophora (adults and L4)

Cooperia punctata (adults and L4)

Cooperia surmabada (adults and L4)

Strongyloides papillosus (adults)

Oesophagostomum radiatum (adults and L4)

Trichuris spp.(adults)

Lungworms

Dictyocaulus viviparus (adults and L4)

Cattle Grubs

(parasitic stages) *Hypoderma bovis*

H. lineatum

Mites

Sarcoptes scabiei var. *bovis*

Lice

Linognathus vituli

Haematopinus eurysternus

Damalinea bovis

Solenopotes capillatus

Horn Flies

Haematobia irritans

PERSISTENT ACTIVITY

IVOMEC Pour-On has been proved to effectively control infections and to protect cattle from re-infection with:

Oesophagostomum radiatum and *Dictyocaulus viviparus* for 28 days after treatment; *Cooperia punctata* and *Trichostrongylus axei* for 21 days after treatment; *Ostertagia ostertagi*, *Haemonchus placei*, *Cooperia oncophora* and *Cooperia surmabada* for 14 days after treatment; *Damalinea bovis* for 56 days after treatment.

TREATMENT OF CATTLE FOR HORN FLIES

IVOMEC Pour-On controls horn flies (*Haematobia irritans*) for up to 28 days after dosing. For best results IVOMEC Pour-On should be part of a parasite control program for both internal and external parasites based on the epidemiology of these parasites. Consult your veterinarian or an entomologist for the most effective timing of applications.

DOSAGE

The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead.