

Doramectin

(doramectin injection)



Description:

One dose of Doramectin Injection effectively treats and controls a wide range of roundworms and arthropod parasites that impair the health and productivity of cattle and swine.

CATTLE: Indicated for the treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, eyeworms, grubs (see PRECAUTIONS), sucking lice (see PRECAUTIONS), and mange mites.

SWINE: Indicated for the treatment and control of the following species of gastrointestinal roundworms, lungworms, kidney worms, sucking lice (see PRECAUTIONS), and mange mites.

Active Ingredients:

Each ml contains 1% w/v doramectin (10 mg/mL)

Dosage & Administration:

Cattle: 1 mL (10 mg doramectin) per 110 lb of body weight (200 mcg/kg) administered by subcutaneous (SC) or intramuscular (IM) injection in the neck region. Beef Quality Assurance guidelines recommend SC administration as the preferred route. **Swine:** 1 mL (10 mg doramectin) per 75 lb of body weight (300 mcg/kg) administered by IM injection only.

Approved For Use On:

Cattle and Swine

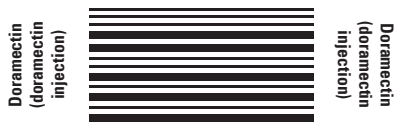
Benefits:

- **Broad spectrum:** effective against a wide range of external and internal parasites in cattle and swine
- **Convenient:** single, small volume dose
- **Effective & ready-to-use:** causes death of parasites and helps prevent reinfection
- **Package safety:** individual vial cartons protect vial contents from sunlight
- **Economical:** inexpensive

Packaging:

100 mL vial, 24 vials/case, UPC# 7-45801-03710-6
250 mL vial, 24 vials/case, UPC# 7-45801-03725-0
500 mL vial, 12 vials/case, UPC# 7-45801-03750-2

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Doramectin (doramectin injection)

Antiparasitic

1% injectable solution for cattle and swine
10 mg/mL

PRODUCT DESCRIPTION:

Doramectin Injectable Solution is a ready-to-use, colorless to pale yellow, sterile solution containing 1% w/v doramectin (10 mg/mL). In cattle, Doramectin Injectable Solution is formulated to deliver the recommended dosage (200 mcg/kg of body weight) when given by subcutaneous (SC) or intramuscular (IM) injection at the rate of 1 mL/110 lb of body weight. In swine, Doramectin is formulated to deliver the recommended dosage (300 mcg/kg of body weight) when given by IM injection at the rate of 1 mL/75 lb of body weight.

PRODUCT CHARACTERISTICS:

Doramectin Injectable Solution is a highly active, broad-spectrum parasiticide for parenteral administration to cattle and swine. It contains doramectin, a novel fermentation-derived macrocyclic lactone. Doramectin is isolated from fermentations of selected strains derived from the soil organism *Streptomyces avermitilis*.

A primary mode of action of macrocyclic lactones is to modulate chloride ion channel activity in the nervous system of nematodes and arthropods. Macrocyclic lactones bind to receptors that increase membrane permeability to chloride ions. This inhibits the electrical activity of nerve cells in nematodes and muscle cells in arthropods and causes paralysis and death of the parasites. In mammals, the neuronal receptors to which macrocyclic lactones bind are localized within the central nervous system (CNS), a site reached by only negligible concentrations of doramectin.

One dose of Doramectin Injectable Solution effectively treats and controls a wide range of roundworm and arthropod parasites that impair the health and productivity of cattle and swine.

Studies have demonstrated the safety margin of doramectin injection in cattle and swine. In USA trials, no toxic signs were seen in cattle given up to 25 times the recommended dose, or in swine given up to 10 times the recommended dose. Studies also demonstrated safety in neonatal calves and piglets treated with up to 3 times the recommended dose. In males (bulls and boars) and females (cows and sows during folliculogenesis, implantation, organogenesis, and through gestation), a dose 3 times the recommended dose had no effect on breeding performance.

PRODUCT INDICATIONS:

Cattle: Doramectin Injectable Solution is indicated for the treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, eyeworms, grubs (see PRECAUTIONS), sucking lice (see PRECAUTIONS), and mange mites. Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism.

Gastrointestinal Roundworms (adults and fourth stage larvae)	Lungworms (adults and fourth stage larvae)
<i>Ostertagia ostertagi</i>	<i>Dictyocaulus viviparus</i>
(including inhibited larvae)	Eyeworms (adults)
<i>O. lyrata</i>	<i>Thelazia</i> spp.
<i>Haemonchus placei</i>	Grubs (parasitic stages)
<i>Trichostrongylus axei</i>	<i>Hypoderma bovis</i>
<i>T. colubriformis</i>	<i>H. lineatum</i>
<i>T. longispicularis</i> ¹	Sucking Lice
<i>Cooperia oncophora</i>	<i>Haematopinus eurysternus</i>
<i>C. pectinata</i> ¹	<i>Linognathus vituli</i>
<i>C. punctata</i>	<i>Solenopotes capillatus</i>
<i>C. surmabada</i> (syn. <i>mcmasteri</i>)	Mange Mites
<i>Bunostomum phlebotomum</i> ¹	<i>Psoroptes bovis</i>
<i>Strongyloides papillosus</i> ¹	<i>Sarcoptes scabiei</i>
<i>Oesophagostomum radiatum</i>	¹ adults
<i>Trichuris</i> spp. ¹	

Doramectin Injectable Solution has been proved to effectively control infections and to protect cattle from reinfection with *Cooperia oncophora* and *Haemonchus placei* for 14 days, *Ostertagia ostertagi* for 21 days, and *C. punctata*, *Oesophagostomum radiatum*, and *Dictyocaulus viviparus* for 28 days after treatment.

Swine: Doramectin Injectable Solution is indicated for the treatment and control of the following species of gastrointestinal roundworms, lungworms, kidney worms, sucking lice (see PRECAUTIONS), and mange mites. Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism.

Gastrointestinal Roundworms (adults and fourth stage larvae)

- Ascaris suum*
- Oesophagostomum dentatum*
- Oesophagostomum quadrispinulatum*¹
- Strongyloides ransomi*¹
- Hyostrogylus rubidus*¹

¹ adults

DOSEAGE:

Cattle: Administer Doramectin Injectable Solution at the recommended dosage of 200 mcg doramectin per kg (91 mcg/lb) of body weight. Each mL of doramectin contains 10 mg of doramectin, 2.5 mg of phenol, and 215 mg of ethyl oleate in a sesame oil vehicle, sufficient to treat 110 lb (50 kg) of body weight.

Body Weight (lb)	Dose (mL)
110	1
220	2
330	3
440	4
550	5
660	6
770	7
880	8
990	9
1,100	10

Swine: Administer Doramectin Injectable Solution at the recommended dosage of 300 mcg doramectin per kg (136 mcg/lb) of body weight. Each mL of doramectin contains 10 mg of doramectin, 2.5 mg of phenol, and 215 mg of ethyl oleate in a sesame oil vehicle, sufficient to treat 75 lb (34 kg) of body weight.

Body Weight (lb)	Dose (mL)
15	0.2
30	0.4
45	0.6
60	0.8
75	1.0
150	2.0
225	3.0
300	4.0
375	5.0
450	6.0

Do not underdose. Ensure each animal receives a complete dose based on a current body weight. Underdosing may result in ineffective treatment, and encourage the development of parasite resistance.

RECOMMENDED TREATMENT PROGRAM FOR SWINE:

To effectively initiate control of mange and sucking lice in swine, it is important to treat all animals in the herd. After initial treatment, use Doramectin Injectable Solution regularly as follows:

Breeding Animals:

Sows: Treat 7-14 days prior to farrowing to minimize exposure of piglets to mites and sucking lice.

Gilts: Treat 7-14 days prior to breeding. Treat 7-14 days prior to farrowing.

Boars: Treat a minimum of 2 times per year.

Feeder Pigs: Treat any new feeder pigs upon arrival at farm or before placement in clean quarters.

Weaners, Growers, Finishers: Weaners and grow-out/finisher pigs should be treated before placement in clean quarters.

For effective mange elimination, care must be taken to prevent reinfestation from exposure to untreated animals or contaminated facilities.