

POUR-ON for Cattle



POUR ON THE PROFITS

It's Easy With Noromectin® Pour-On For Cattle

Noromectin[®] Pour-On for cattle is an ivermectinbased endectocide for the effective treatment and control of a wide range of internal and external parasites of beef and non-lactating dairy cattle.

Internal Parasites	Adults	L ₄	Inhibited Stage
Gastrointestinal Roundworms			
Ostertagia ostertagi	•	•	•
Haemonchus placei	•	•	_
Trichostrongylus axei	•	•	
T. colubriformis	•	•	
Cooperia oncophora	•	•	
Cooperia punctata	•	•	
Cooperia surnabada	•	•	
Oesophagostomum radiatum	•	•	
Strongyloides papillosus	•		
Trichuris spp.	•		
Lungworms			
Dictyocaulus viviparus	•	•	

External Parasites

EXITIMAL PALASILES			
Cattle Grubs (parasitic stages)		IA	
Hypoderma bovis	NG.	IN THE	
H. lineatum		6.0	N
Horn Flies	Reduce parasite paras		()
Haematobia irritans	pasture for	of the brown stomach worm	3
Lice	better forage utilization	(O. ostertagi)	1
Linognathus vituli			L
Haematopinus eurysternus		e cows to	
Damalinia bovis	summer para	by controlling site infestation	
Solenopotes capillatus		t winter lice d-up	
Mites	/N TH	E FALL	
Sarcoptes scabiei var. bovis	l H	E	



Noromectin® Pour-On Offers Your Customers These Proven Advantages:

- Broad-spectrum efficacy against a wide range of internal and external parasites
- → A convenient pour-on formulation for ease of administration and less stress for the producer as well as the animal
- → Persistent activity against important parasites
- → Rapid penetration to target key parasites quickly
- → A high margin of safety
- → Uncompromising quality control from Norbrook Laboratories – a worldwide leader in animal health
- → A competitively priced solution

Recommend Strategic Parasite Control for Herd Protection and Profitability

The economics of Noromectin® Pour-On for cattle, allow cow/calf and stocker operations to treat multiple times per year for improved herd health.

Observe label directions and withdrawal times. Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism. Warning: Flammable. Do not use in female dairy cattle of breeding age or in calves to be processed for veal. Not recommended for use in species other than cattle. See product labeling for full product information.



POUR-ON for Cattle

Contains 5 mg ivermectin/mL

ANADA 200-272, Approved by FDA

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

external parasite control in one convenient low-volume Noromectin (ivermectin) Pour-On delivers internal and

control of these parasites **Gastrointestinal Roundworms**

Noromectin Pour-On applied at the recommended dose level of 500 mcg/kg is indicated for the effective

(including inhibited stage) Haemonchus placei Strongyloides papillosus Oesophagostomum radiatum Cooperia surnabada Cooperia oncophora Trichostrongylus axei (adults and L4)
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(adults and L4)

(adults and L4) (adults and L4)

(adults and L4)

(parasitic stages)

H. lineatum Dictyocaulus viviparus Hypoderma bovis

Sarcoptes scabiei var. bovis

nognathus vituli

Solenopotes capillatus Damalinia bovis

Haematobia irritans

Persistent Activity

Noromectin 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 surnabada for 14 after treatment; Damalinia bovis for 56 days after

Treatment of Cattle for Horn Flies

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

Dosage
The dose rate is 1 mL for each 22 lb of body weight. The forerate 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

Collapsible Pack (33.8 fl oz/1 liter pack with dispensing

The dispensing cap is graduated in 5 mL increments. Each 5 mL will treat 110 lbs body weight. When body weight is between markings, use the next higher increment. Attach the dispensing cap to the bottle. Select the correct dose rate by rotating the adjuster top in either direction to position the dose indicator to the appropriate level. Hold the bottle upright and gently squeeze it to deliver a slight excess of the required dose as indicated by the calibration lines. By releasing the pressure, the dose automatically adjusts to the correct level. Tit the bottle to deliver the dose. The "dosed-off-shut" position will close the system between dosing. If the amimal being treated weighs more than 550 lbs (250 kg), refill the dispensing cap to the additional amount required to provide the total dose for that takes and another adjusters. dose for that animal and apply as directed.

liter pack with dosing gun/applicator) Collapsible Pack (84.5 fl oz/2.5 liter pack; 169 fl oz/5

Because of the solvents used in Noromectin Pour-On, the applicator gun from Simcro Tech, or equivalent, is recommended. Other applicators may exhibit compatibility problems resulting in locking, incorrect dosage or leakage. Remove the shipping cap from the backpack container and replace with the vent cap provided. Attach the hose from the automatic dosing equipment to the outlet from the vent cap. Follow the applicator gun manufacturer's directions for priming the gun, adjusting the dose, and care of the applicator gun following use.

device and dosing gun/applicator) Container (676 fl oz/20 liter container with draw-ofi

resulting in locking, incorrect dosage or leakage. Screw Feedlot pack cap and dip tube onto the 20 liter drum ensuring a tight fit. Connect the long 3m feed tube at one end to the spigot on the Feedlot pack cap and the other end to the applicator gun. Then follow the applicator gun manufacturer's directions for priming the gun, adjusting the dose, and care of the applicator gun following use. Tech, or equivalent, is recommended. Other applicators may exhibit compatibility problems the draw-off device and applicator gun from Simcro Tech, or equivalent, is recommended. Other Because of the solvents used in Noromectin Pour-On,

is expected to exceed 12 hours, disconnect the gun, draw off tubing and dip tub and cap from the product container, empty the product from the gun and tubing back into the container and replace the shipping cap. When the interval between use of the applicator gun

50 ml	1100 lb (500 kg)
45 mL	990 lb (450 kg)
40 mL	880 lb (400 kg)
35 mL	770 lb (350 kg)
30 mL	660 lb (300 kg)
25 mL	550 lb (250 kg)
20 mL	440 lb (200 kg)
15 mL	330 lb (150 kg)
10 mL	220 lb (100 kg)
Dose	Weight

Mode of Action

Ivermectin is a member of the macrocylic 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

such gamma-aminobutyric acid (GABA). 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 This leads to an increase in the permeability of the neurotransmitter

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

Animal Safety
Studies conducted in the U.S.A. have demonstrated the safety margin for ivermectin. Based on plasma levels, the topically applied formulation is expected to be at least as well tolerated by breeding animals as is the subcutaneous formulation which had no effect on breeding performance.

RESIDUE INFORMATION: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age. A withdrawal period has not been established withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

WARNING! NOT FOR USE IN HUMANS

and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention. and rubber gloves. If accidental skin contact occurs because it may be irritating to This product should not be applied to self or others human skin and eyes

Keep this and all drugs out of the reach of

KEEP AWAY AND OTHER SOURCES OF IGNITION. WARNING! FLAMMABLE! OPEN FLAME,

adverse effects, obtain an MSDS, or for assistance call Norbrook at 1-913-599-5777. detailed occupational safety information. To report The Material Safety Data Sheet (MSDS) contains more

PRECAUTIONS and protect from light. from excessive heat (104°F/40°C)

Close container tightly when not in use. Use only in well-ventilated areas or outdoors.

since reduced efficacy may be experienced Cattle should not be treated when hair or hide is wet

six hours after treatment Do not use when rain is expected to wet cattle within

Do not give orally or parenterally

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Cloudiness in the formulation may occur when Noromectin (ivermectin) Pour-On is stored at temperatures below 32° F. Allowing it to warm at without affecting efficacy. room temperature will restore the normal appearance

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

lvermectin has been associated with adverse reactions in sensitive dogs; therefore, Noromectin Pour-On is not recommended for use in species other than cattle.

When to Treat Cattle with Grubs

esophageal tissues may cause bloat: killing *H. bovis* when it is in the write training the vertebral canal may cause staggering or paralysis. Cattle should be treated either before or after these stages of grub development. to ivermectin, destruction of Hypoderma larvae (cattle grubs) at the period when these grubs are in vital be treated as soon as possible after the end of the heel fly (warble fly) season. While this is not peculiar Noromectin Pour-On effectively controls all stages of cattle grubs. However, proper timing of treatment is important. For the most effective results, cattle should areas may cause undesirable host-parasite reactions

Cattle treated with Noromectin Pour-On at the end of the fly season may be re-treated with Noromectin during the winter without danger of grub-related reactions. For further information and advice on a planned parasite control program, consult your veterinarian.

improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration. organisms. Do not permit cattle to enter lakes, streams or ponds for at least six hours after treatment. Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of Environmental Safety
Studies indicate that when ivermectin comes contact with the soil, it readily and tightly binds ivermectin may adversely affect fish or certain aquatic the soil and becomes inactive over time.

As with other avermectins, ivermectin is excreted in the dung of treated animals and can inhibit the reproduction and growth of pest and beneficial insects that use dung as a source of food and for reproduction. The magnitude and duration of such effects are species and life-cycle specific. When used according to label directions, the product is not expected to have an adverse impact on populations of dung-dependent insects.

Package Information

Noromectin Pour-On is available in a 33.8 fl oz/1 L collapsible pack for use with the dispensing cap provided, or in an 84.5 fl oz/2.5 L collapsible pack in a 169 fl oz/5 L collapsible pack and a 676 fl oz/20 L dosing equipment. container intended for use with appropriate automatic

Restricted Drug - California. Use Only as Directed.

Norbrook Laboratories Limited

Down

Northern Ireland

