

BIMECTIN PLUS- ivermectin clorsulon injection
Bimeda, Inc.

Approved by FDA under ANADA #200-450 Restricted Drug (California)-Use Only as Directed

Bimectin® Plus

(ivermectin and clorsulon)

Injection for Cattle

For the effective treatment and control of internal parasites, including adult liver flukes, and external parasites.

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

INTRODUCTION

The ability of ivermectin to deliver internal and external parasite control has been proven in cattle markets around the world. Now, Bimectin® Plus combines ivermectin, the active ingredient of Bimectin 1%, with clorsulon, an effective adult flukicide. A single injection of Bimectin® Plus (ivermectin and clorsulon) offers all the benefits of Bimectin 1% plus control of adult *Fasciola hepatica*.

The dosage level of clorsulon supplied by Bimectin® Plus is effective only against adult liver flukes (*Fasciola hepatica*).

PRODUCT DESCRIPTION

Bimectin® Plus is a ready-to-use sterile solution containing 1% w/v ivermectin, 10% w/v clorsulon, 40% glycerol formal, and propylene glycol, q.s. ad 100%. It is formulated to deliver the recommended dose level of 200 mcg ivermectin/kg and 2 mg clorsulon/kg given subcutaneously behind the shoulder at the rate of 1 mL per 110 lb (50 kg) body weight.

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. Clorsulon is rapidly absorbed into the circulating blood.

Erythrocytes with bound drug as well as plasma are ingested by *Fasciola hepatica*. Adult *Fasciola hepatica* are killed by clorsulon because of inhibition drug as well as plasma are ingested by *Fasciola hepatica*. Adult *Fasciola hepatica* of enzymes in the glycolytic pathway, which is their primary source of energy.

INDICATIONS

Bimectin Plus is indicated for the effective treatment and control of the following parasites in cattle:

Gastrointestinal Roundworms (adults and fourth-stage larvae):

Ostertagia ostertagi (including inhibited *O. ostertagi*)

O. lyrata

Haemonchus placei

Trichostrongylus axei

T. colubriformis

Cooperia oncophora

C. punctata

C. pectinata

Bunostomum phlebotomum

Nematodirus helvetianus (adults only)

N. spathiger (adults only)

Oesophagostomum radiatum

Lungworms (adults and fourth-stage larvae):

Dictyocaulus viviparus

Liver Flukes:

Fasciola hepatica (adults only)

Cattle Grubs (parasitic stages):

Hypoderma bovis

H. lineatum

Sucking Lice:

Linognathus vituli

Haematopinus euryesternus

Solenopotes capillatus

Mange Mites (Cattle Scab*):

Psoroptes ovis (syn. *P. communis* var. *bovis*)

Sarcoptes scabiei var. *bovis*

Persistent Activity

Bimectin® Plus has been proved to effectively control infections and to protect cattle from reinfection with *Dictyocaulus viviparus* and *Oesophagostomum radiatum* for 28 days after treatment; *Ostertagia ostertagi*, *Trichostrongylus axei* and *Cooperia punctata*

When using the 250 mL, 500 mL or 1000 mL package size, use only automatic syringe equipment. Use sterile equipment and sanitize the injection site by applying a suitable disinfectant. Clean, properly disinfected needles should be used to reduce the potential for injection site infections.

No special handling or protective clothing is necessary.

The viscosity of the product increases in cool temperatures. Administering Bimectin® Plus at temperatures of 5°C (41°F) or below may be difficult. Users can make dosing easier by warming both the product and injection equipment to about 15°C (59°F).

Use within 28 days of first puncture and puncture a maximum of 14 times with a dosage delivery device.

ANIMAL SAFETY

In breeding animals (bulls and cows), ivermectin and clorsulon used at the recommended level had no effect on breeding performance.

HUMANS.

reach of children.

The Safety Data Sheet (SDS) contains more detailed occupational safety information. To report adverse effects, obtain an SDS or for assistance, contact Bimeda, Inc. at 1-888-524-6332.

RESIDUE WARNING: Do not treat cattle within 21 days of slaughter. Because a withdrawal period in milk has not been established, do not use in female dairy cattle of breeding age. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

PRECAUTIONS

Transitory discomfort has been observed in some cattle following subcutaneous administration. Soft tissue swelling at the injection site has also been observed. These reactions have disappeared without treatment. Divide doses greater than 10 mL between two injection sites to reduce occasional discomfort or site reaction. Different injection sites should be used for other parenteral products. Bimectin® Plus has been developed specifically for use in cattle only. This product should not be used in other animal species as severe adverse reactions, including fatalities in dogs, may result. For subcutaneous injection in cattle only. This product is not for intravenous or intramuscular use.

Restricted Drug (California) - Use Only as Directed.

When to Treat Cattle with Grubs

Bimectin® Plus effectively controls all stages of cattle grubs. However, proper timing of treatment is important. For most effective results, cattle should be treated as soon as possible after the end of the heel fly (warble fly) season.

Destruction of *Hypoderma larvae* (cattle grubs) at the period when these grubs are in vital areas may cause undesirable host-parasite reactions including the possibility of

WARNING: NOT FOR USE IN

Keep this and all drugs out of

fatalities. Killing *Hypoderma lineatum* when it is in the tissue surrounding the esophagus (gullet) may cause bloat; killing *H. bovis* when it is in the vertebral canal may cause staggering or paralysis. These reactions are not specific to treatment with Bimectin® Plus, but can occur with any successful treatment of grubs. Cattle should be treated either before or after stages of grub development. Consult your veterinarian concerning the proper time for treatment.

Cattle treated with Bimectin® Plus after the end of the heel fly season may be retreated with ivermectin during the winter for internal parasites, mange mites, or sucking lice, without danger of grub-related reactions. A planned parasite control program is recommended.

Protect product from light.

Environmental Safety

Studies indicate that when ivermectin comes in contact with soil, it readily and tightly binds to the soil and becomes inactive over time. Free ivermectin may adversely affect fish and certain aquatic organisms. Do not permit water runoff from feedlots to enter lakes, streams or ponds. Do not contaminate water by direct application or by improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

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.

HOW SUPPLIED

Bimectin® Plus is available in three ready-to-use sizes:

The 250 mL plastic bottle is suitable for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 50 head of 550 lb (250 kg) cattle.

The 500 mL plastic bottle is suitable for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 100 head of 550 lb (250 kg) cattle.

The 1000 mL plastic bottle is suitable for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 200 head of 550 lb (250 kg) cattle.

Store at 20°C to 25°C (68°F to 77°F). Protect from light.

WARNING: NOT FOR USE IN HUMANS.
Keep this and all drugs out of the reach of children.

RESIDUE WARNING: Do not treat cattle within 21 days of slaughter. Because a withdrawal period in milk has not been established, do not use in female dairy cattle of breeding age. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

PRECAUTIONS
Use automatic syringe equipment only. For subcutaneous injection in cattle only. Protect product from light.

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 Bimeda

Bimectin[®] Plus

(ivermectin and clorsulon)

INJECTION FOR CATTLE

Approved by FDA under ANADA # 200-450



1000 mL

For the treatment and control of internal parasites, including adult liver flukes, and external parasites.

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasites. Do not contaminate water. Dispose of containers in an approved landfill or by incineration.

See package insert for complete indications, precautions, warnings, residue information, and use directions.

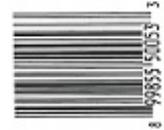
Store at 20°C to 25°C (68°F to 77°F).

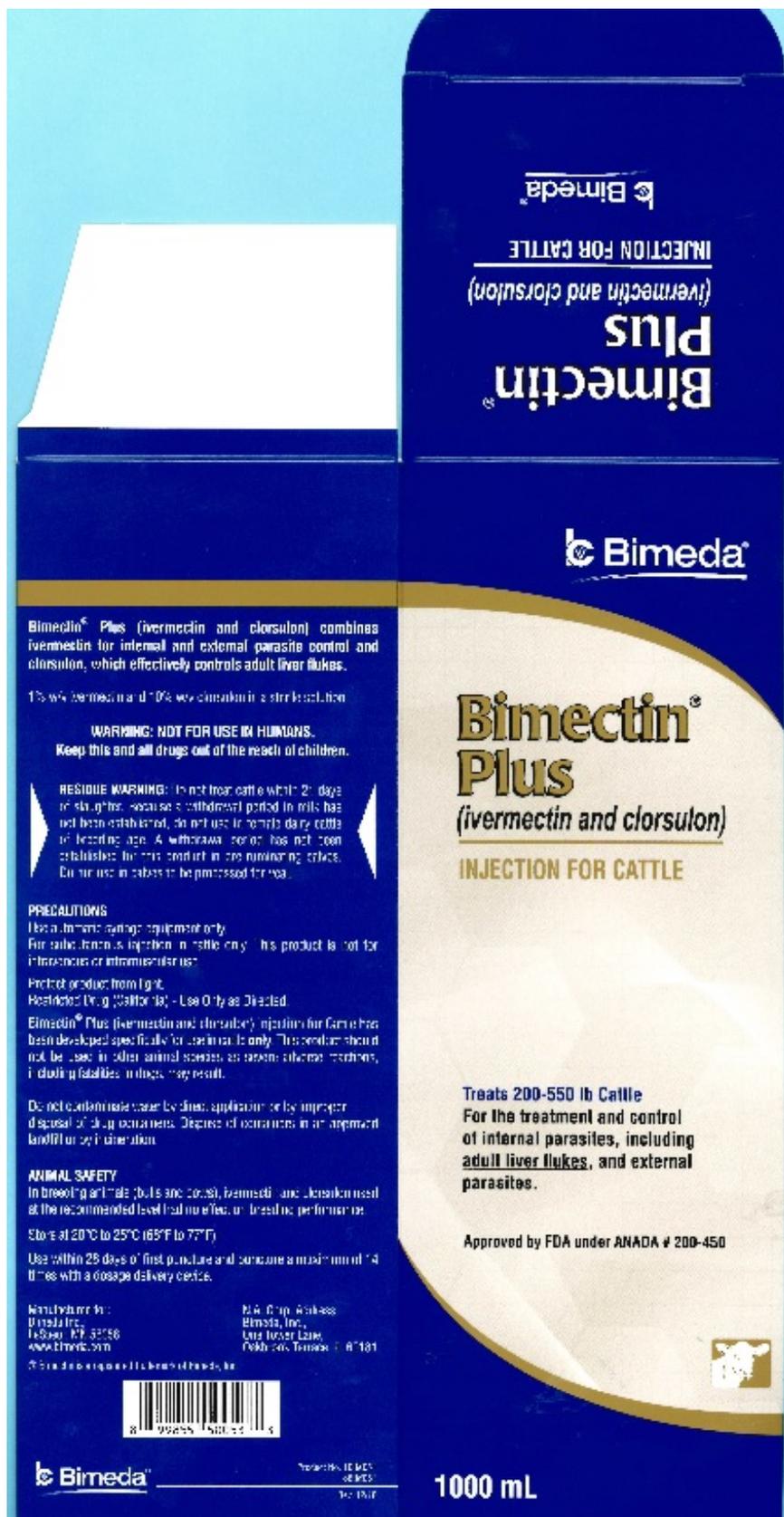
Use within 28 days of first puncture and puncture a maximum of 14 times with a dosage delivery device.

TAKE TIME  OBSERVE LABEL DIRECTIONS

Manufactured for:
Bimeda, Inc.
Le Sueur, MN 56055
www.bimeda.com

N.A. Corp. Address:
Bimeda, Inc.
One Tower Lane,
Cedarbrook Farms, IL 60181





BIMECTIN PLUS

ivermectin clorisulon injection

Product Information

Product Type	OTC ANIMAL DRUG	Item Code (Source)	NDC:61133-4000
Route of Administration	SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ivermectin (UNII: 8883YP2R6D) (IVERMECTIN - UNII:8883YP2R6D)	ivermectin	10 mg in 1 mL
CLORSULON (UNII: EG1ZDO6LRD) (CLORSULON - UNII:EG1ZDO6LRD)	CLORSULON	100 mg in 1 mL

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:61133-4000-3	1000 mL in 1 VIAL, MULTI-DOSE		
2	NDC:61133-4000-2	500 mL in 1 VIAL, MULTI-DOSE		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANADA	ANADA200450	03/26/2019	

Labeler - Bimeda, Inc. (060492923)

Establishment

Name	Address	ID/FEI	Business Operations
Bimeda- MTC		256232216	manufacture

Revised: 10/2024

Bimeda, Inc.