

BIMECTIN[®] PLUS

(ivermectin and clorsolun)

DATA SHEET



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

- **Gastrointestinal Roundworms**
- **Adult Liver Flukes**
- **Cattle Grubs**
- **Lungworms**
- **Mange Mites**
- **Sucking Lice**

- ✓ **Broad spectrum treatment and control of internal and external parasites in cattle**
- ✓ **Convenient single, small dose required**
- ✓ **Effective: causes paralysis and death of parasites and helps prevent reinfection**
- ✓ **Package safety: rigid plastic vials provide for a firm grip and prevent breakage, individual vial cartons protect vial contents from sunlight**
- ✓ **Cost effective parasitic control in your herd**
- ✓ **FDA approved**

LIST No	UNIT PACKAGE	CASE SIZE
1BIM050	500 mL	12
1BIM051	1000 mL	12



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INJECTION FOR CATTLE

WARNING - NOT FOR USE IN HUMANS.

Keep this and all drugs out of the reach of children.

Restricted Drug (California) – Use Only as Directed

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

A Parasiticide for the Treatment and Control of Internal Parasites, including Adult Liver Flukes and External Parasites in Cattle.

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

INTRODUCTION:

Bimectin[®] Plus Injection (ivermectin and clorsulon) is an injectable parasiticide for cattle. One low-volume dose effectively treats and controls the following internal and external parasites that may impair the health of cattle: gastrointestinal roundworms (including inhibited *Ostertagia ostertagi*), lungworms, adult liver flukes, grubs, sucking lice, and mange mites. **The dosage level of clorsulon supplied by Bimectin[®] Plus Injection is effective only against adult liver flukes (*Fasciola hepatica*).**

PRODUCT DESCRIPTION:

Bimectin[®] Plus Injection 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%. Bimectin[®] Plus Injection 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/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 of enzymes in the glycolytic pathway, which is their primary source of energy.

INDICATIONS:

Bimectin[®] Plus Injection 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 eurysternus

Solenopotes capillatus

Mange Mites (Cattle Scab*):

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

Sarcoptes scabiei var. *bovis*

PERSISTENT ACTIVITY:

Ivermectin and clorsulon injection 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* for 21 days after treatment; *Haemonchus placei* and *Cooperia oncophora* for 14 days after treatment.

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*Ivermectin has been approved as a scabicide by USDA/APHIS. Federal regulations require that cattle infested with or exposed to scabies (i.e., infestations with *Psoroptes ovis*) be treated. Ivermectin when used according to label instructions meets this requirement. Treated cattle may be shipped interstate, but they must not be mixed with other cattle for 14 days following treatment. The federal regulations make no restriction on the movement of cattle not affected with or exposed to scabies. However, individual states have additional regulations to govern the interstate shipment of cattle and the regulatory veterinarian in the state of destination should be consulted for applicable regulations on the use of ivermectin in the control of scabies.

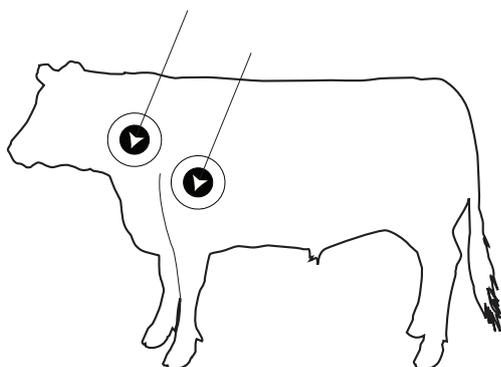
DOSAGE:

Bimectin[®] Plus Injection should be given only by subcutaneous injection at a dose volume of 1 mL per 110 lb. (50 kg) body weight. This volume will deliver 10 mg ivermectin and 100 mg clorsulon. For example:

Body Weight (lb)	Dose Volume (mL)
220	2
330	3
440	4
550	5
660	6
770	7
880	8
990	9
1100	10

ADMINISTRATION:

Bimectin Plus Injection is to be given subcutaneously only. Animals should be appropriately restrained to achieve the proper route of administration. Use of a 16-gauge, ½" to ¾" needle is recommended. Inject the solution subcutaneously (under the skin) behind the shoulder (see illustration).



When using the 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 Injection 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.

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 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.

For subcutaneous injection in cattle only. This product is not for intravenous or intramuscular use.

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WHEN TO TREAT CATTLE WITH GRUBS:

Bimectin[®] Plus Injection 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 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 Injection, 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 Injection 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.

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-dependant insects.

HOW SUPPLIED:

Bimectin[®] Plus Injection is available in ready-to-use sizes:

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.

STORAGE:

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

MARKETED AND MANUFACTURED BY:

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TAKE TIME



OBSERVE LABEL
DIRECTIONS

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