

IVERMECTIN- ivermectin injection

Sparhawk Laboratories, Inc.

IVERMECTIN INJECTION for Cattle and Swine 1% Sterile Solution

A Parasiticide for the Treatment and Control of Internal and External Parasites of Cattle and Swine

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

IntroductionIvermectin is an injectable parasiticide for cattle and swine. One low-volume dose effectively treats and controls the following internal and external parasites that may impair the health of cattle and swine: gastrointestinal roundworms (including inhibited *Ostertagia ostertagi* in cattle), lungworms, grubs, sucking lice, and mange mites of cattle; and gastrointestinal roundworms, lungworms, lice, and mange mites in swine.

Product Description

Ivermectin is derived from the avermectins, a family of potent, broad-spectrum antiparasitic agents isolated from fermentation of *Streptomyces avermitilis*. IVERMECTIN Injection is a clear, ready-to-use, sterile solution containing 1% ivermectin, 40% glycerol formal, and propylene glycol, q.s. ad 100%. IVERMECTIN Injection is formulated to deliver the recommended dose level of 200 mcg ivermectin/kilogram of body weight in cattle when given subcutaneously at the rate of 1 mL/110 lb (50 kg). In Swine, IVERMECTIN Injection is formulated to deliver the recommended dose level of 300 mcg ivermectin/kilogram body weight when given subcutaneously in the neck at the rate of 1 mL/75 lbs (33 kg).

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

Cattle: IVERMECTIN Injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, grubs, sucking lice and mange mites 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

Oesophagostomum radiatum

Bunostomum phlebotomum

Nematodirus helvetianus(adults only)

N. spathiger (adults only)

Lungworms

(adults and fourth-stage larvae):

*Dictyocaulus viviparus***Cattle Grubs**(parasitic stages):

Hypoderma bovis

*H. lineatum***Sucking Lice:**

Linognathus vituli

Haematopinus eurysternus

*Solenopotes capillatus***Mites** Iscabies:

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

*Sarcoptes scabiei*var. *bovis*

Persistent Activity

IVERMECTIN 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.

Swine: IVERMECTIN Injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, lice and mange mites in swine:

Gastrointestinal roundworms

Large roundworm, *Ascaris suum*(adults and fourth-stage larvae)

Red stomach worm, *Hyoststrongylus rubidus*

(adults and fourth-stage larvae)

Nodular worm, *Oesophagostomum spp.*

(adults and fourth-stage larvae)

Threadworm, *Strongyloides ransomi* (adults)

Somatic Roundworm Larvae:

Threadworm, *Strongyloides ransomi* (somatic larvae)

Sows must be treated at least seven days before farrowing to prevent infection in piglets.

Lungworm: *Metastrongylus spp.* (adults)

Lice: *Haematopinus suis* **Mange Mites:** *Sarcoptes scabiei* var. *suis*

Dosage

Cattle: IVERMECTIN should be given only by subcutaneous injection under the loose skin in front of or behind the shoulder at the recommended dose level of 200 mcg ivermectin per kilogram of body weight. Each mL of IVERMECTIN contains 10 mg of ivermectin, sufficient to treat 110 lb (50 kg) of body weight (maximum 10 mL per injection site.).

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

Swine: IVERMECTIN should be given only by subcutaneous injection in the neck of swine at the recommended dose level of 300 mcg ivermectin per kilogram (2.2 lb) of body weight. Each mL of IVERMECTIN contains 10 mg of ivermectin, sufficient to treat 75 lb of body weight.

| | Body Weight (lb) | Dose (mL) |
|---|---------------------|--------------|
| Growing Pigs | 19 | 1/4 |
| | 38 | 1/2 |
| | 75 | 1 |
| | 150 | 2 |
| Breeding Animals (Sows, Gilts, and Boars) | 225 | 3 |
| | 300 | 4 |
| | 375 | 5 |
| | 450 | 6 |

| | Body Weight (lb) | Dose (mL) |
|---|---------------------|--------------|
| Growing Pigs | 19 | 1/4 |
| | 38 | 1/2 |
| | 75 | 1 |
| | 150 | 2 |
| Breeding Animals (Sows, Gilts, and Boars) | 225 | 3 |
| | 300 | 4 |
| | 375 | 5 |
| | 450 | 6 |

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.

Administration

Cattle: IVERMECTIN Injection is to be given subcutaneously only, to reduce risk of potentially fatal clostridial infection of the injection site. Animals should be appropriately restrained to achieve the proper route of administration. Use of a 16-gauge, 1/2 to 3/4" needle is suggested. Inject under the loose skin in front of or behind the shoulder (see illustration). When using the 200 mL or 500 mL 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.



Swine: IVERMECTIN Injection is to be given subcutaneously in the neck. Animals should be appropriately restrained to achieve the proper route of administration. Use of a 16- or 18-gauge needle is suggested for sows and boars, while an 18- or 20-gauge needle may be appropriate for young animals. Inject under the skin, immediately behind the ear (see illustration). When using the 200 mL or 500 mL size, use only automatic syringe equipment. As with any injection, sterile equipment should be used. The injection site should be cleaned and disinfected with alcohol before injection. The rubber stopper should also be disinfected with alcohol to prevent contamination of the contents. Mild and transient pain reactions may be seen in some swine following subcutaneous administration.



Recommended Treatment Program

SWINE: At the time of initiating any parasite control program, it is important to treat all breeding animals in the herd. After the initial treatment, use IVERMECTIN Injection regularly as follows:

BREEDING ANIMALS

Sows: Treat prior to farrowing, preferably 7-14 days before, to minimize infection of piglets.

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

Boars: Frequency and need for treatment are dependent upon exposure. Treat at least two times a year.

FEEDER PIGS

(Weaners/Growers/Finishers) All weaner/feeder pigs should be treated before placement in clean quarters.

Pigs exposed to contaminated soil or pasture may need retreatment if reinfections occurs.

NOTE:

(1) IVERMECTIN Injection has a persistent drug level sufficient to control mite infestations throughout the egg to adult life cycle. However, since the ivermectin effect is not immediate, care must be taken to prevent reinfestation from exposure to untreated animals or contaminated facilities. Generally, pigs should not be moved to

clean quarters or exposed to uninfested pigs for approximately one week after treatment. Sows should be treated at least one week before farrowing to minimize transfer of mites to newborn baby pigs.

(2) Louse eggs are unaffected by IVERMECTIN Injection and may require up to three weeks to hatch. Louse infestations developing from hatching eggs may require retreatment.

(3) Consult a veterinarian for aid in the diagnosis and control of internal and external parasites of swine.

Special Minor Use

Reindeer: For the treatment and control of warbles (*Oedemagena tarandi*) in reindeer, inject 200 micrograms ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under **ADMINISTRATION**.

American Bison: For the treatment and control of grubs (*Hypoderma bovis*) in American bison, inject 200 micrograms ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under **ADMINISTRATION**.

RESIDUE WARNING: Do not treat reindeer or American bison within 8 weeks (56 days) of slaughter.

WARNING

Not for use in humans.

Keep out to reach of children.

The Safety Data Sheet (SDS) contains more detailed occupational safety information. To report adverse effects, obtain a SDS or for assistance, contact Sparhawk Laboratories, Inc. at 1-800-255-6368.

RESIDUE WARNING: Do not treat cattle within 35 days of slaughter. 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 for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

Do not treat swine within 18 days of slaughter.

Precautions

Transitory discomfort has been observed in some cattle following subcutaneous administration. A low incidence of soft tissue swelling at the injection site has been observed. These reactions have disappeared without treatment. For cattle, divide doses greater than 10 mL between two injection sites to reduce occasional discomfort or site reaction.

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 infection.

Observe cattle for injection site reactions. Reactions may be due to clostridial infection

and should be aggressively treated with appropriate antibiotics. If injection site infections are suspected, consult your veterinarian.

This product is not for intravenous or intramuscular use.

Protect product from light.

IVERMECTIN Injection for Cattle and Swine has been developed specifically for use in cattle, swine, reindeer and American bison **only**. This product should not be used in other animal species as severe adverse reactions, including fatalities in dogs may result.

When to Treat Cattle with Grubs

IVERMECTIN 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 salivation and bloat.: Killing *H. bovis* when it is in the vertebral canal may cause staggering or paralysis. These reactions are not specific to treatment with a IVERMECTIN, but can occur with any successful treatment of grubs. Cattle should be treated either before or after these stages of grub development. Consult your veterinarian concerning the proper time for treatment. Cattle treated with IVERMECTIN 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.

OTHER WARNINGS

Parasite resistance may develop to any dewormer, and has been reported for most classes of dewormers.

Treatment with a dewormer used in conjunction with parasite management practices appropriate to the geographic area and the animal(s) to be treated may slow the development of parasite resistance.

Fecal examinations or other diagnostic test and parasite management history should be used to determine if the product is appropriate for the herd/flock, prior to the use of any dewormer. Following the use of any dewormer, effectiveness of treatment should be monitored (for example, with the use of a fecal egg count reduction test or another appropriate method).

A decrease in a drug's effectiveness over time as calculated by fecal egg count reduction tests may indicate the development of resistance to the dewormer administered. Your parasite management plan should be adjusted accordingly based on regular monitoring.

Environmental Safety

Studies indicate that when ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Free ivermectin may adversely affect fish and certain water born organisms on which they feed. Do not permit water runoff from feedlots or production sites to enter lakes, streams, or ponds. Do not contaminate water by direct application or by the 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 lifestyle specific. When used according to label directions, the product is not expected to have an adverse impact on populations of dung-dependent insects.

CONTACT INFORMATION

To report suspected adverse events, for technical assistance or to obtain a copy of the SDS, contact Sparhawk Laboratories Inc at 1-800-255-6388 or 1-913-888-7500. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or <http://www.fda.gov/reportanimalae>

How Supplied

50 mL, 200 mL, 500 mL

The 50 mL pack is a multiple-dose, rubber-capped bottle. Each bottle contains sufficient solution to treat 10 head of 550 lb (250 kg) cattle or 100 head of 38 lb (17.3 kg) swine.

The 200 mL pack is a multiple-dose, rubber-capped bottle for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 40 head of 550 lb. (250 Kg) cattle or 400 head of 38 lb. (17.3 Kg) swine.

The 500 mL pack is a multiple-dose, rubber-capped bottle designed for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 100 head of 550 lb (250 kg) cattle or 1000 head of 38 lb (17.3 kg) swine.

Discard any remaining volume in 200 mL, and 500 mL vial sizes following use of an automatic syringe

Protect product from light

Store between 20-25°C (68-77° F).

Restricted Drug (California) - use only as directed.

Approved by FDA under ANADA # 200-429

IVERMECTIN

Injection for Cattle and Swine

1% Sterile Solution

A Parasiticide for the Treatment and Control of Internal and External Parasites of Cattle and Swine

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

INDICATIONS

For the treatment and control of gastro-intestinal roundworms, lungworms, lice, and mange mites. See package insert for complete indications, precautions, warnings, residue warning, and use directions.

Do not contaminate water by direct application or by improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

RECOMMENDED DOSE

Cattle: 1 mL per 110 lb body weight.

Swine: 1 mL per 75 lb body weight.

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.

LOT NO.: EXP. DATE:

IVERMECTIN INJECTION

for Cattle and Swine

1% Sterile Solution

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

Not for Use in Humans
Keep out of reach of children

NET CONTENTS: 200 mL (6.76 oz)

Approved by FDA under ANADA # 200-429



DISTRIBUTED BY

LENEXA, KS 66215 U.S.A.

WARNING

Not for use in humans.
Keep out of reach of children.

RESIDUE WARNING: Do not treat cattle within 35 days of slaughter. 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 for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

Do not treat swine within 18 days of slaughter.

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

Restricted Drug (California) - use only as directed.
Store at 20-25°C.



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Insert after before or after these stages of grub development. Consult your veterinarian concerning the proper time for treatment. Cattle treated with IVERMECTIN after the end of the breeding season may be re-treated with IVERMECTIN during the winter for external parasites, mange mites, or sucking lice without danger of grub-related reactions. A planned parasite control program is recommended.

OTHER WARNINGS

Parasite resistance may develop in any dewormer, and has been reported for most classes of dewormers.

Treatment with a dewormer used in conjunction with parasite management practices appropriate to the geographic area and the animal to be treated may slow the development of parasite resistance.

Fecal examinations or other diagnostic test and parasite management history should be used to determine if the product is appropriate for the herd/flock, prior to the use of any dewormer. Following the use of any dewormer, effectiveness of treatment should be monitored (for example, with the use of a fecal egg count reduction test or another appropriate method).

A decrease in a drug's effectiveness over time as calculated by fecal egg count reduction tests may indicate the development of resistance to the dewormer administered. Your parasite management plan should be adjusted accordingly based on regular monitoring.

Environmental Safety

Studies indicate that when IVERMECTIN comes in contact with the soil, it rapidly and lightly binds to the soil and becomes inactive over time. IVERMECTIN may adversely affect fish and certain waterborne organisms on which they feed. Do not permit water runoff from feedlots or production sites to enter lakes, streams, or ponds. Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration. As with other ivermectins, IVERMECTIN is absorbed in the drug 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.

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Contact Information: To report suspected adverse events, for technical assistance or to obtain a copy of the SDS, contact Sparhawk Laboratories, Inc. at 1-800-255-6368 or 1-913-888-7400. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VEITS or <http://www.fda.gov/medwatch>

How Supplied: 50 mL, 200 mL, 500 mL.

The 50 mL pack is a multiple-dose, rubber-capped bottle. Each bottle contains sufficient solution to treat 10 head of 550 lb (250 kg) cattle or 100 head of 35 lb (17.2 kg) swine. The 200 mL pack is a multiple-dose, rubber-capped bottle for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 40 head of 550 lb (250 kg) cattle or 400 head of 35 lb (17.2 kg) swine. The 500 mL pack is a multiple-dose, rubber-capped bottle designed for use with automatic syringe equipment. Each bottle contains sufficient solution to treat 100 head of 550 lb (250 kg) cattle or 1000 head of 35 lb (17.2 kg) swine. **Discard any remaining volume in 200 mL, and 500 mL vial sizes following use of an automatic syringe.**

Protect product from light.

Store between 20°-25°C (68°-77°F).

Restricted Drug (California) - use only as directed.

Sparhawk Laboratories, Inc.,

Lenexa, KS 66215, U.S.A.

Approved by FDA under ANADA # 200-429

WARNING

Not for use in humans.
Keep out of reach of children.

RESIDUE WARNING: Do not treat cattle within 35 days of slaughter. 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 for this product in pre-ruminating calves. Do not use in calves to be processed for veal. Do not treat swine within 18 days of slaughter.

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

Restricted Drug (California) - use only as directed.

Store at 20-25°C.



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IVERMECTIN

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1% Sterile Solution

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

Indications

Ivermectin is an injectable parasiticide for cattle and swine. One low-volume dose effectively treats and controls the following internal and external parasites that may impair the health of cattle and swine: gastrointestinal roundworms including inhibited (*Ostertagia circumcincta*) in cattle, lungworms, grubs, sucking lice, and mange mites of cattle; and gastrointestinal roundworms, lungworms, lice, and mange mites of swine.

Product Description

Ivermectin is derived from the avermectins, a family of potent, broad-spectrum antiparasitic agents isolated from fermentation of *Streptomyces avermectin*. IVERMECTIN Injection is a clear, ready-to-use, sterile solution containing 1% Ivermectin, 95% glycerol formal, and propylene glycol, q.s. ad 100%. IVERMECTIN Injection is formulated to deliver the recommended dose level of 200 mcg ivermectin/kg of body weight in cattle when administered subcutaneously at the rate of 1 mL (110 lb) in 50 mL. In swine, IVERMECTIN Injection is formulated to deliver the recommended dose level of 300 mcg ivermectin/kg of body weight when given subcutaneously in the neck at the rate of 1 mL (75 lb) in 30 mL.

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Parasite Activity

IVERMECTIN Injection has been proven to effectively control infections and to protect cattle from infection with *Ostertagia circumcincta* and *Oesophagostomum radiatum* for 28 days after treatment. (*Ostertagia circumcincta*, *Oesophagostomum radiatum*, and *Oesophagostomum radiatum* are common parasites for 21 days after treatment; *Oesophagostomum radiatum* and *Oesophagostomum radiatum* for 14 days after treatment.)

Swine: IVERMECTIN Injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, lice and mange mites in swine.

Gastrointestinal Roundworms

Large roundworm, *Ascaris suum* (adults and fourth-stage larvae); Red stomach worm, *Oesophagostomum radiatum* (adults and fourth-stage larvae); Nodular worm, *Oesophagostomum radiatum* (adults and fourth-stage larvae).

Swine: IVERMECTIN Injection is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, lice and mange mites in swine.

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recommended dose level of 200 mcg ivermectin per kilogram of body weight. Each mL of IVERMECTIN contains 10 mcg of ivermectin, sufficient to treat 10 lb (4.5 kg) of body weight (minimum 1 mL per injection site).

Swine: IVERMECTIN should be given only by subcutaneous injection.

The end of one of the recommended dose level of 300 mcg ivermectin per kilogram of body weight (75 lb) of body weight. Each mL of IVERMECTIN contains 10 mcg of ivermectin, sufficient to treat 10 lb (4.5 kg) of body weight.

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.

Administration

Cattle: IVERMECTIN Injection is to be given subcutaneously only, to reduce risk of potentially fatal infection of the injection site. Animals should be appropriately restrained to achieve the proper route of administration. Use of a 16 gauge, 12 to 20" needle is suggested. Inject under the loose skin in front of or behind the shoulder (see diagram).

When using the 200 mL or 500 mL 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.

Swine: IVERMECTIN Injection is to be given subcutaneously in the neck. Animals should be appropriately restrained to achieve the proper route of administration. Use of a 16- or 18-gauge

needle is suggested for sows and boars, while an 18- or 20-gauge needle may be appropriate for young animals. Inject under the skin, immediately behind the ear (see diagram). When using the 200 mL or 500 mL size, use only automatic syringe equipment. As with any injection, sterile equipment should be used. The injection site should be cleaned and disinfected with alcohol before injection. The rubber stopper should also be disinfected with alcohol to prevent contamination of the contents. Mix and transport glass vials may be seen in some cases following subcutaneous administration.

Recommended Treatment Program

SWINE: At the time of initiating any parasite control program, it is important to treat all breeding animals in the herd. After the initial treatment, use IVERMECTIN Injection regularly as follows:

BREEDING ANIMALS:

Sows: Treat prior to farrowing, preferably 7-14 days before, to minimize infection of piglets.

Gils: Treat 7-14 days prior to breeding.

Boars: Frequent and need for treatment are dependent upon exposure.

Treat at least two times a year.

FEEDING PLACES

(Weaners/Growers/Finishers)

All weaners/growers/pigs should be treated before placement in clean quarters.

Pigs exposed to contaminated soil or pasture may need retreatment if infection occurs.

NOTE:

(1) IVERMECTIN Injection has a persistent drug level sufficient to control mite infestations throughout the year. In adult swine, however, since the ivermectin effect is not immediate, care must be taken to prevent reinfestation from exposure to untreated animals or contaminated facilities. Generally, pigs should not be moved to clean quarters or exposed to untreated pigs for approximately one week after treatment. Sows should be treated at least one week before farrowing to minimize transfer of mites to newborn baby pigs.

(2) Louse eggs are unaffected by IVERMECTIN Injection and may require up to three weeks to hatch. Lice infestations developing from hatching eggs may require retreatment.

(3) Consult a veterinarian for aid in the diagnosis and control of internal and external parasites of swine.

Special Note to Swine:

Reinfect: For the treatment and control of warbles (*Cordylomyia* spp.) in swine, inject 200 mcg ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under ADMINISTRATION.

American Bait: For the treatment and control of grubs (*Oesophagostomum radiatum*) in American Bait, inject 200 mcg ivermectin per kilogram of body weight, subcutaneously. Follow use directions for cattle as described under ADMINISTRATION.

RESIDUE WARNING: Do not treat swine within 18 days of slaughter.

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IVERMECTIN

ivermectin injection

Product Information

Product Type

OTC ANIMAL DRUG

Item Code (Source)

NDC:58005-346

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 |

Packaging

| # | Item Code | Package Description | Marketing Start Date | Marketing End Date |
|---|------------------|---------------------|----------------------|--------------------|
| 1 | NDC:58005-346-02 | 50 mL in 1 VIAL | | |
| 2 | NDC:58005-346-07 | 200 mL in 1 VIAL | | |
| 3 | NDC:58005-346-06 | 500 mL in 1 VIAL | | |

Marketing Information

| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
|--------------------|--|----------------------|--------------------|
| ANADA | ANADA200429 | 07/05/2010 | |

Labeler - Sparhawk Laboratories, Inc. (147979082)

Revised: 3/2024

Sparhawk Laboratories, Inc.