2005110703

99999/999999x
300-720-002/093

DIN 02243607 H41266 (CA)

FOR VETERINARY USE ONLY

UNImectrin® (ivermectin)

Sterile Injection

for Cattle, Sheep and Swine

Active ingredient: Each mL contains 10 mg of ivermectin

WARNING

1. Treated cattle and sheep must not be slaughtered for use in food for at least thirty-five (35) days after the latest treatment with this drug; treated swine must not be slaughtered for use in food for at least twenty-eight (28) days after the latest treatment with this drug.
2. Non-lactating dairy cattle must not be treated with this drug for at least two (2) months prior to calving.
3. Not for use in lactating dairy cattle.
4. Not for use in ewes where milk is to be used for human consumption.
5. Keep this and all drugs out of the reach of children.

Distributed by Universal Cooperatives, Inc.
c/o Bridon Cordage Ltd.
601, 45th Street East
Saskatoon, Saskatchewan
Canada S7K 0W4

Manufactured by: Merck Sharp & Dohme B.V.
for Merial Canada Inc.
20000 Clark Graham
Baie d'Urfé, Qc H9X 4B6

® Registered trademark of Merial Limited.
2030-2134-00

500 mL

INDICATIONS

For the treatment of infections and infestations due to internal and external parasites in cattle and swine, and parasitic infections due to internal parasites in sheep. See package insert for complete list of parasites.

DOSAGE AND ADMINISTRATION

Cattle and sheep: one mL of UNIMECTRIN Injection (10 mg of ivermectin) per 50 kg of body weight by subcutaneous injection only (maximum of 10 mL per site).

Swine: one mL of UNIMECTRIN Injection (10 mg of ivermectin) per 33 kg of body weight by subcutaneous injection in the neck only. See package insert for complete use directions.

CAUTION

1. Do not administer intravenously or intramuscularly.
2. A transitory discomfort has been observed in some animals following subcutaneous administration. A low incidence of soft tissue swelling at the injection site has been observed. These reactions have disappeared without treatment. Divide doses greater than 10 mL between injection sites to reduce occasional discomfort or site reaction. Different sites should be used for other parenteral products.
3. **Sheep:** Following subcutaneous injections activity suggesting pain, sometimes intense but usually transient, has been seen in some sheep. Adequate vaccination against clostridial infections in sheep is recommended. Consult your veterinarian for advice on a vaccination program.
4. **Cattle:** To prevent potential secondary reactions when treating infections with cattle grubs, consult your veterinarian on the correct timing of treatment.

STORAGE

Store bottle in carton to protect from light.

DIN 02243607 H41266 (CA)

POUR USAGE VÉTÉRINAIRE SEULEMENT

UNImectrin® (ivermectin)

Solution injectable stérile

pour bovins, moutons et porcs

Ingrédient actif : Chaque mL renferme 10 mg d'ivermectin.

MISE EN GARDE

1. Les bovins et les moutons traités ne doivent pas être abattus à des fins alimentaires dans un délai d'au moins trente-cinq (35) jours après le dernier traitement avec ce médicament; les porcs traités ne doivent pas être abattus à des fins alimentaires dans un délai d'au moins vingt-huit (28) jours après le dernier traitement avec ce médicament.
2. Les vaches laitières taries ne doivent pas être traitées avec ce médicament durant les deux (2) mois qui précèdent le vêlage.
3. Ne pas administrer aux vaches laitières en lactation.
4. Ne pas administrer aux brebis dont le lait est destiné à la consommation humaine.
5. Garder ce produit, ainsi que tout médicament, hors de la portée des enfants.

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a/s de Bridon Cordage Ltée
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Canada S7K 0W4

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20000 Clark Graham
Baie d'Urfé, Qc H9X 4B6

® Marque déposée de Merial Limitée.

500 mL

INDICATIONS

Pour le traitement des infections et des infestations attribuables aux parasites internes et externes chez les bovins et les porcs, et des infections attribuables aux parasites internes chez les moutons. Voir la liste complète des parasites dans le dépliant.

POSOLOGIE ET ADMINISTRATION

Bovins et moutons : Administrer un mL de solution injectable UNIMECTRIN (10 mg d'ivermectin) aux 50 kg de poids vif par voie sous-cutanée exclusivement (10 mL par point d'injection au maximum).

Porcs : Administrer un mL de solution injectable UNIMECTRIN (10 mg d'ivermectin) aux 33 kg de poids vif en injection sous-cutanée dans le cou seulement. Voir les renseignements posologiques complets dans le dépliant de conditionnement.

PRÉCAUTION

1. Ne pas administrer par voie intraveineuse ou intramusculaire.
2. Une gêne transitoire a été observée chez quelques animaux après injection sous-cutanée. De rares cas d'œdème des tissus mous ont été observés au point d'injection. Ces réactions sont cependant disparues spontanément sans traitement. Fractionner les doses supérieures à 10 mL et les injecter en différents points afin de réduire la gêne transitoire ou les réactions au point d'injection. Ne pas administrer d'autres produits à usage parentéral au même lieu d'injection choisi pour ce medicament.
3. **Moutons :** L'administration sous-cutanée de ce produit peut causer de la douleur, parfois intense mais généralement transitoire chez certains moutons. Une vaccination appropriée contre les infections à *Clostridium* est fortement recommandée chez le mouton. Consulter votre vétérinaire qui vous conseillera un programme de vaccination.
4. **Bovins :** Afin de prévenir les réactions secondaires potentiellement associées à l'élimination des hypodermes, consulter votre vétérinaire pour connaître le moment opportun pour l'application du traitement.

ENTREPOSAGE

Craint la lumière. Entreposer le flacon dans la boîte.

0 36700 40173 1

UPC-A
MAG 100%
HEIGHT 1.08" (27.58 mm)

Label: UNIMECTRIN Injectable CANADA 500mL Carton Code: 2030-2134-00 Revision: A-10/24/05	PRINTER, please read for: **SPECIAL INSTRUCTIONS**	
Reviewer for/Signataire pour **MARKETING*** dpt. Name/Nom: Date + signature:	Reviewer for/Signataire pour **REGULATORY** aff. Name/Nom: Date + signature:	**IMPORTANT NOTES :** **IN CASE OF MODIFICATIONS :** **EN CAS DE MODIFICATIONS :** ONLY READABLE MODIFICATIONS WILL BE ACCEPTED : Numbered typed texts (word/email) or numbered "POST-IT" with Acrobat. SEULES LES MODIFICATIONS LISIBLES SERONT ACCEPTÉES : Textes saisis numérotés (word/email) ou "POST-IT" numérotés sous Acrobat. *No approval for registration file submission. Pas d'approbation pour un dépôt de dossier d'enregistrement.

2005110703

DIN 02243607

H41266 (CA)

UNImectrin®
(ivermectin)

FOR VETERINARY USE ONLY
POUR USAGE VÉTÉRINAIRE SEULEMENT

Sterile Injection for Cattle, Sheep and Swine
Solution injectable stérile pour bovins, moutons et porcs

Active Ingredient: Each mL contains 10 mg of ivermectin

WARNING

1. Treated cattle and sheep must not be slaughtered for use in food for at least thirty-five (35) days after the latest treatment with this drug; treated swine must not be slaughtered for use in food for at least twenty-eight (28) days after the latest treatment with this drug.
2. Non-lactating dairy cattle must not be treated with this drug for at least two (2) months prior to calving.
3. Not for use in lactating dairy cattle.
4. Not for use in ewes where milk is to be used for human consumption.
5. Keep this and all drugs out of the reach of children.

INDICATIONS: For the treatment of infections and infestations due to internal and external parasites in cattle and swine, and parasitic infections due to internal parasites of sheep. See package insert for complete list of parasites.

DOSAGE AND ADMINISTRATION: Cattle and Sheep: one mL of UNIMECTRIN Injection (10 mg of ivermectin) per 50 kg of body weight by subcutaneous injection only (maximum of 10 mL per site). **Swine:** one mL of UNIMECTRIN Injection (10 mg of ivermectin) per 33 kg of body weight by subcutaneous injection in the neck only. See package insert for complete use directions.

CAUTION

1. Do not administer intravenously or intramuscularly.
2. A transitory discomfort has been observed in some animals following subcutaneous administration. A low incidence of soft tissue swelling at the injection site has been observed. These reactions have disappeared without treatment. Divide doses greater than 10 mL between injection sites to reduce occasional discomfort or site reaction. Different sites should be used for other parenteral products.
3. **Sheep:** Following subcutaneous injections activity suggesting pain, sometimes intense but usually transient, has been seen in some sheep. Adequate vaccination against clostridial infections in sheep is recommended. Consult your veterinarian for advice on a vaccination program.
4. **Cattle:** To prevent potential secondary reactions when treating infections with cattle grubs, consult your veterinarian on the correct timing of treatment.

STORAGE: Store bottle in carton to protect from light.

Distributed by / Distribué par Universal Cooperatives, Inc.
c/o Bridon Cordage Ltd. / a/s de Bridon Cordage Ltée
601, 45th Street East / 45[e] rue Est
Saskatoon, Saskatchewan, Canada S7K 0W4

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for / pour Merial Canada Inc.
20000 Clark Graham
Baie d'Urfé, Qc H9X 4B6

® Registered trademark of Merial Limited. / Marque déposée de Merial Limitée.
2020-2133-00

500 mL

Ingrédient actif : Chaque mL renferme 10 mg d'ivermectine

MISE EN GARDE

1. Les bovins et les moutons traités ne doivent pas être abattus à des fins alimentaires dans un délai d'au moins trente-cinq (35) jours après le dernier traitement avec ce médicament; les porcs traités ne doivent pas être abattus à des fins alimentaires dans un délai d'au moins vingt-huit (28) jours après le dernier traitement avec ce médicament.
2. Les vaches laitières taries ne doivent pas être traitées avec ce médicament durant les deux (2) mois qui précèdent le vêlage.
3. Ne pas administrer aux vaches laitières en lactation.
4. Ne pas administrer aux brebis dont le lait est destiné à la consommation humaine.
5. Garder ce produit, ainsi que tout médicament, hors de la portée des enfants.

INDICATIONS : Pour le traitement des infections et des infestations attribuables aux parasites internes et externes chez les bovins et les porcs, et des infections attribuables aux parasites internes chez les moutons. Voir la liste complète des parasites dans le dépliant.

POSOLOGIE ET ADMINISTRATION : Bovins et moutons : Administrer un mL de solution injectable UNIMECTRIN (10 mg d'ivermectine) par 50 kg de poids vif par voie sous-cutanée exclusivement (10 mL par point d'injection au maximum). **Porcs :** Administrer un mL de solution injectable UNIMECTRIN (10 mg d'ivermectine) par 33 kg de poids vif en injection sous-cutanée dans le cou seulement. Voir les renseignements posologiques complets dans le dépliant de conditionnement.

PRÉCAUTION

1. Ne pas administrer par voie intraveineuse ou intramusculaire.
2. Une gêne transitoire a été observée chez quelques animaux après injection sous-cutanée. De rares cas

Lot :

Exp./
Pér. :

d'œdème des tissus mous ont été observés au point d'injection. Ces réactions sont cependant disparues spontanément sans traitement. Fractionner les doses supérieures à 10 mL et les injecter en différents points afin de réduire la gêne transitoire ou les réactions au point d'injection. Ne pas administrer d'autres produits à usage parentéral au même lieu d'injection choisi pour ce médicament.
3. **Moutons :** L'administration sous-cutanée de ce produit peut causer de la douleur, parfois intense mais généralement transitoire chez certains moutons. Une vaccination appropriée contre les infections à Clostridium est fortement recommandée chez le mouton. Consulter votre vétérinaire qui vous conseillera un programme de vaccination.
4. **Bovins :** Afin de prévenir les réactions secondaires potentiellement associées à l'élimination des hypodermes, consulter votre vétérinaire pour connaître le moment opportun pour l'application du traitement.

ENTREPOSAGE : Craint la lumière. Entreposer le flacon dans la boîte.

Project: UNIMECTRIN Injectable CANADA
Comments: 500mL Label
2020-2133-00
Revision(s): A-10/24/05

GPT DULUTH

P286
P354
B

Use PANTONE MATCHING SYSTEM for an accurate color representation.
Se référer au SYSTEME NUANCIERS PANTONE pour le rendu adéquat.

Graph. 1

Graph. 2

PRINTER, please read for
SPECIAL INSTRUCTIONS

Reviewer for/Signataire pour **MARKETING*** dpt.	Reviewer for/Signataire pour **REGULATORY** aff.	**IMPORTANT NOTES : IN CASE OF MODIFICATIONS : EN CAS DE MODIFICATIONS :**
Name/Nom:	Name/Nom:	**ONLY READABLE MODIFICATIONS WILL BE ACCEPTED :** Numbered typed texts (word/email) or numbered "POST-IT" with Acrobat.
Date + signature:	Date + signature:	**SEULES LES MODIFICATIONS LISIBLES SERONT ACCEPTÉES :** Textes saisis numérotés (word/email) ou "POST-IT" numérotés sous Acrobat.
		*No approval for **registration file submission.** Pas d'approbation pour un **dépôt de dossier d'enregistrement.**

2005110703

DIN 02243607

UNImectrin®
(ivermectin)

Sterile Injection for Cattle, Sheep and Swine
Solution injectable stérile pour bovins, moutons et porcs

H41265 (CA)
FOR VETERINARY USE ONLY
POUR USAGE VÉTÉRINAIRE SEULEMENT

Active ingredient: Each mL contains 10 mg of ivermectin.

WARNING

1. Treated cattle and sheep must not be slaughtered for use in food for at least thirty-five (35) days after the latest treatment with this drug. Treated swine must not be slaughtered for use in food for at least twenty-eight (28) days after the latest treatment with this drug.
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3. Not for use in lactating dairy cattle.
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5. Keep this and all drugs out of the reach of children.

INDICATIONS: For the treatment of infections and infestations due to internal and external parasites in cattle and swine, and parasitic infections due to internal parasites of sheep. See package insert for complete list of parasites.

DOSAGE AND ADMINISTRATION: Cattle and Sheep: one mL of UNIMECTRIN Injection (10 mg of ivermectin) per 50 kg of body weight by subcutaneous injection only (maximum of 10 mL per site). **Swine:** one mL of UNIMECTRIN Injection (10 mg of ivermectin) per 33 kg of body weight by subcutaneous injection in the neck only. See package insert for complete use directions.

CAUTION

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3. **Sheep:** Following subcutaneous injections activity suggesting pain, sometimes intense but usually transient, has been seen in some sheep. Adequate vaccination against clostridial infections in sheep is recommended. Consult your veterinarian for advice on a vaccination program.
4. **Cattle:** To prevent potential secondary reactions when treating infections with cattle grubs, consult your veterinarian on the correct timing of treatment.

STORAGE: Store bottle in carton to protect from light.

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® Registered trademark of Merial Limited. / Marque déposée de Merial Limitée. 2020-2131-00

200 mL

[illegible]

MISE EN GARDE

[illegible]

INDICATIONS : [illegible]

POSOLOGIE ET ADMINISTRATION : Bovins et moutons : [illegible]

PRÉCAUTION

1. Ne pas administrer par voie intraveineuse ou intramusculaire.
2. Une gêne transitoire a été observée chez quelques animaux après injection sous-cutanée. De rares cas d'œdème des tissus mous ont été observés au point d'injection. Ces réactions sont cependant disparues spontanément sans traitement. Fractionner les doses supérieures à 10 mL et les injecter en différents points afin de réduire la gêne transitoire ou les réactions au point d'injection. Ne pas administrer d'autres produits à usage parentéral au même lieu d'injection choisi pour ce médicament.

Lot :

Exp./
Pér. :

3. **Moutons :** L'administration sous-cutanée de ce produit peut causer de la douleur, parfois intense mais généralement transitoire chez certains moutons. Une vaccination appropriée contre les infections à Clostridium est fortement recommandée chez le mouton. Consulter votre vétérinaire qui vous conseillera un programme de vaccination.
4. **Bovins :** Afin de prévenir les réactions secondaires potentiellement associées à l'élimination des hypodermes, consulter votre vétérinaire pour connaître le moment opportun pour l'application du traitement.

ENTREPOSAGE : Craint la lumière. Entreposer le flacon dans la boîte.

Project: UNIMECTRIN Injectable CANADA
Comments: 200mL Label
2020-2131-00
Revision(s)
A-10/24/05

Identification-couleurs

P286
P354
B

Use PANTONE MATCHING SYSTEM for an accurate color representation.
Se référer au SYSTÈME NUANCIERS PANTONE pour le rendu adéquate.

GPT DULUTH

Contrôle GPT

Graph. 1
Nom-Date «Signature»

Graph. 2
Nom-Date «Signature»

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SPECIAL INSTRUCTIONS

Reviewer for/Signataire pour **MARKETING*** dpt.	Reviewer for/Signataire pour **REGULATORY** aff.	**IMPORTANT NOTES : IN CASE OF MODIFICATIONS : EN CAS DE MODIFICATIONS :**
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2005110703

SEALED FOR SECURITY IF BROKEN DO NOT ACCEPT

SCELLÉ PAR SÉCURITÉ REFUSER EN CAS DE RUPTURE

Lot

Exp

99999/999999x
300-720-001/093H

DIN 02243607 H41265 (CA)

FOR VETERINARY USE ONLY

UNImectrin®
(ivermectin)
Sterile Injection
for Cattle, Sheep and Swine

Active ingredient: Each mL contains 10 mg of ivermectin

WARNING

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® Registered trademark of Merial Limited.
2030-2132-00

200 mL

INDICATIONS
For the treatment of infections and infestations due to internal and external parasites in cattle and swine, and parasitic infections due to internal parasites in sheep. See package insert for complete list of parasites.

DOSAGE AND ADMINISTRATION
Cattle and sheep: one mL of UNIMECTRIN injection (10 mg of ivermectin) per 50 kg of body weight by subcutaneous injection only (maximum of 10 mL per site).
Swine: one mL of UNIMECTRIN injection (10 mg of ivermectin) per 33 kg of body weight by subcutaneous injection in the neck only. See package insert for complete use directions.

CAUTION
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3. **Sheep:** Following subcutaneous injections activity suggesting pain, sometimes intense but usually transient, has been seen in some sheep. Adequate vaccination against clostridial infections in sheep is recommended. Consult your veterinarian for advice on a vaccination program.
4. **Cattle:** To prevent potential secondary reactions when treating infections with cattle grubs, consult your veterinarian on the correct timing of treatment.

STORAGE
Store bottle in carton to protect from light.

DIN 02243607 H41265 (CA)

POUR USAGE VÉTÉRINAIRE SEULEMENT

UNImectrin®
(ivermectin)
Solution injectable stérile
pour bovins, moutons et porcs

Ingrédient actif : Chaque mL renferme 10 mg d'ivermectin.

MISE EN GARDE

1. Les bovins et les moutons traités ne doivent pas être abattus à des fins alimentaires dans un délai d'au moins trente-cinq (35) jours après le dernier traitement avec ce médicament; les porcs traités ne doivent pas être abattus à des fins alimentaires dans un délai d'au moins vingt-huit (28) jours après le dernier traitement avec ce médicament.
2. Les vaches laitières taries ne doivent pas être traitées avec ce médicament durant les deux (2) mois qui précèdent le vêlage.
3. Ne pas administrer aux vaches laitières en lactation.
4. Ne pas administrer aux brebis dont le lait est destiné à la consommation humaine.
5. Garder ce produit, ainsi que tout médicament, hors de la portée des enfants.

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® Marque déposée de Merial Limitée.

200 mL

INDICATIONS
Pour le traitement des infections et des infestations attribuables aux parasites internes et externes chez les bovins et les porcs, et des infections attribuables aux parasites internes chez les moutons. Voir la liste complète des parasites dans le dépliant.

POSOLOGIE ET ADMINISTRATION
Bovins et moutons : Administrer un mL de solution injectable UNIMECTRIN (10 mg d'ivermectin) aux 50 kg de poids vif par voie sous-cutanée exclusivement (10 mL par point d'injection au maximum).
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PRÉCAUTION
1. Ne pas administrer par voie intraveineuse ou intramusculaire.
2. Une gêne transitoire a été observée chez quelques animaux après injection sous-cutanée. De rares cas d'œdème des tissus mous ont été observés au point d'injection. Ces réactions sont cependant disparues spontanément sans traitement. Fractionner les doses supérieures à 10 mL et les injecter en différents points afin de réduire la gêne transitoire ou les réactions au point d'injection. Ne pas administrer d'autres produits à usage parentéral au même lieu d'injection choisi pour ce médicament.
3. **Moutons :** L'administration sous-cutanée de ce produit peut causer de la douleur, parfois intense mais généralement transitoire chez certains moutons. Une vaccination appropriée contre les infections à *Clostridium* est fortement recommandée chez le mouton. Consulter votre vétérinaire qui vous conseillera un programme de vaccination.
4. **Bovins :** Afin de prévenir les réactions secondaires potentiellement associées à l'élimination des hypodermes, consulter votre vétérinaire pour connaître le moment opportun pour l'application du traitement.

ENTREPOSAGE
Craint la lumière. Entreposer le flacon dans la boîte.

0 36700 40172 4

UPC-A
MAG 100%
HEIGHT 1.08" (27.58 mm)

UNIMECTRIN Injectable CANADA
200mL Carton
2030-2132-00
A-10/24/05

PRINTER, please read for
SPECIAL INSTRUCTIONS

Reviewer for/Signataire pour **MARKETING***dpt.	Reviewer for/Signataire pour **REGULATORY**aff.
Name/Nom:	**Name/Nom:**
Date + signature:	**Date + signature:**

IMPORTANT NOTES : IN CASE OF MODIFICATIONS : EN CAS DE MODIFICATIONS :

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*No approval for **registration file submission.**
Pas d'approbation pour un **dépôt de dossier d'enregistrement.**

2005110703

H41265/41266 (CA) 99999/999999X

UNImectrin®
(ivermectin)

Sterile Injection
for Cattle, Sheep and Swine

FOR VETERINARY USE ONLY

For the treatment of infections and infestations due to internal and external parasites in cattle and swine, and parasitic infections due to internal parasites in sheep.

INTRODUCTION

UNIMECTRIN contains ivermectin, a unique chemical entity. Its convenience, broad-spectrum efficacy and wide safety margin make it an excellent antiparasitic product for cattle, sheep and swine.

One low-volume dose effectively controls internal and external parasites of cattle and swine and internal parasites of sheep that can impair health and productivity.

PRODUCT DESCRIPTION

UNIMECTRIN Injection is a ready-to-use sterile solution containing the following ingredients per mL: 10 mg ivermectin, 0.40 mL glycerol formal and propylene glycol q.s. ad 1 mL. UNIMECTRIN Injection is formulated to deliver the recommended dose level of 200 µg ivermectin per kg of body weight in cattle and sheep when given subcutaneously at the rate of 1 mL per 50 kg. In swine, UNIMECTRIN Injection is formulated to deliver the recommended dose level of 300 µg ivermectin per kg body weight when given subcutaneously at the rate of 1 mL per 33 kg.

Studies show that UNIMECTRIN Injection is stable for five years when stored under normal conditions.

ACTIVE INGREDIENT

Ivermectin is the first in a series of antiparasitic agents derived from the avermectin family of compounds. The avermectins are highly active, broad-spectrum antiparasitic agents isolated from fermentation of the soil organism *Streptomyces avermitilis*.

INDICATIONS

CATTLE

UNIMECTRIN Injection is indicated for the treatment of infections and infestations due to gastrointestinal roundworms, lungworms, grubs, sucking lice and mange mites in cattle:

Gastrointestinal roundworms: **Ostertagia ostertagi* (adults and fourth stage larvae including inhibited *O. ostertagi*); *O. lyrata* (adults); *Haemonchus placei* (adults and fourth stage larvae); *Trichostrongylus axei* (adults and fourth stage larvae); *T. colubriformis* (adults); *Cooperia oncophora* (adults and fourth stage larvae); *C. punctata* (adults); *Oesophagostomum radiatum* (adults and fourth stage larvae); *Strongyloides papillosus* (adults)

Eye worms: *Thelazia* spp.

Lungworms: **Dictyocaulus viviparus* (adults and fourth stage larvae)

Cattle grubs (internal parasitic stages): *Hypoderma bovis; H. lineatum*

Sucking lice: *Linognathus vituli; Haematopinus eurysternus; Solenopotes capillatus*

Mites: *Sarcoptes scabiei* var. *bovis; Psoroptes ovis* (syn. *P. communis* var. *bovis*)

*UNIMECTRIN Injection given at the recommended dosage controls infections of *Dictyocaulus viviparus, Ostertagia ostertagi* and *Oesophagostomum radiatum* for 21 days after treatment; *Haemonchus placei, Trichostrongylus axei, Cooperia punctata* and *Cooperia oncophora* for 14 days after treatment.

SHEEP

UNIMECTRIN Injection is indicated for the treatment of infections due to gastrointestinal roundworms, lungworms, and larval stages of the nasal bot in sheep:

Gastrointestinal roundworms: Adults and immatures: *Haemonchus contortus; Ostertagia circumcincta; Trichostrongylus colubriformis; Cooperia curticei; Oesophagostomum columbianum; Chabertia ovina*

Adults: *Trichostrongylus axei; Oesophagostomum venulosum; Trichuris ovis*

Lungworms: *Dictyocaulus filaria* (adults and immatures)

Nasal bot: *Oestrus ovis* (all larval stages)

SWINE

UNIMECTRIN Injection is indicated for the treatment of the following parasitic infections and infestations in swine:

Gastrointestinal roundworms: Large roundworms, *Ascaris suum* (adults and L4); Red stomach worm, *Hyostrongylus rubidus* (adults and L4); Nodular worm, *Oesophagostomum* spp. (adults and L4); Threadworm, *Strongyloides ransomi* (adults and somatic larvae)

Somatic Threadworm Larvae *(Strongyloides ransomi)*. Sows must be treated at least seven days before farrowing to prevent infection of piglets.

Lungworm: *Metastrongylus* spp. (adults)

Lice: *Haematopinus suis*

Mites: *Sarcoptes scabiei* var. *suis*

DOSAGE AND ADMINISTRATION

CATTLE

UNIMECTRIN Injection should be given only by subcutaneous injection at the recommended dosage level of 200 µg of ivermectin per kg of body weight. Each mL contains 10 mg of ivermectin, sufficient to treat 50 kg of body weight (maximum 10 mL per injection site).

UNIMECTRIN Injection should be given subcutaneously only. Inject under the loose skin in front of or behind the shoulder. Use of a 16 gauge, 15 to 20 mm (3/4 inch) needle is suggested. Use sterile equipment.

SHEEP

The recommended dose level is 1 mL of UNIMECTRIN Injection per 50 kg of body weight (200 µg of ivermectin per kg). The recommended route of administration is by subcutaneous injection. The solution may be given with any standard automatic or single-dose equipment. Use sterile equipment. The loose skin behind the shoulder is an acceptable site. In woolly sheep, be certain that the needle has penetrated the wool and skin before delivering the dose.

SWINE

The recommended dose level is 1 mL of UNIMECTRIN Injection per 33 kg of body weight (300 µg of ivermectin per kg of body weight). The recommended route of administration is by subcutaneous injection in the neck. The solution may be given with any standard automatic or single-dose equipment. In young pigs, especially those below 16 kg for which less than 0.5 mL of UNIMECTRIN Injection is indicated, dosing accuracy is important. The use of a syringe that can accurately deliver as little as 0.1 mL is recommended. Use aseptic technique.

RECOMMENDED TREATMENT PROGRAM

I. Breeding Animals

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 UNIMECTRIN Injection regularly as follows:

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 treatments are dependent upon exposure. Treat at least two times per year.

II. Feeder pigs

All feeder pigs should be treated before placement in clean quarters. Pigs exposed to contaminated soil or premises may need retreatment if reinfection occurs.

Note:

1. UNIMECTRIN 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 UNIMECTRIN 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.

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 channels and they do not readily cross the blood-brain barrier.

CLINICAL ADVANTAGES

Injectable Convenience

UNIMECTRIN Injection is an injectable antiparasitic agent highly effective against both internal and external parasites of cattle and swine and internal parasites of sheep in Canada. It can be administered quickly and easily.

Broad-Spectrum

UNIMECTRIN Injection provides broad-spectrum efficacy against gastrointestinal roundworms, lungworms, cattle grubs, sheep nasal bot, and sucking lice and mange mites of cattle and swine with one easy-to-give injection (see complete list of parasites).

Unique Chemical Compound

UNIMECTRIN Injection contains ivermectin, a unique antiparasitic compound.

Safety

UNIMECTRIN Injection has demonstrated a wide safety margin at the recommended dose level in cattle, swine and sheep. UNIMECTRIN Injection may be used in breeding animals.

Stability

UNIMECTRIN Injection has been shown to be stable for five years when stored under normal conditions.

WARNING

1. Treated cattle and sheep must not be slaughtered for use in food for at least thirty-five (35) days after the latest treatment with this drug; treated swine must not be slaughtered for use in food for at least twenty-eight (28) days after the latest treatment with this drug.
2. Non-lactating dairy cattle must not be treated with this drug for at least two (2) months prior to calving.
3. Not for use in lactating dairy cattle.
4. Not for use in ewes where milk is to be used for human consumption.
5. Keep this and all drugs out of the reach of children.

CAUTION

1. Do not administer intravenously or intramuscularly.
2. Transitory discomfort has been observed in some animals following subcutaneous administration. A low incidence of soft tissue swelling at the injection site has been observed. These reactions have disappeared without treatment. Divide doses greater than 10 mL between injection sites to reduce occasional discomfort to site reaction. Different sites should be used for other parenteral products.
3. **Sheep:** Following subcutaneous injections, activity suggesting pain, sometimes intense but usually transient, has been seen in some sheep. Adequate vaccination against clostridial infections in sheep is recommended. Consult your veterinarian for advice on a vaccination program.
4. **Cattle:** To prevent potential secondary reactions when treating infections with cattle grubs, consult your veterinarian on the correct timing of treatment.

ENVIRONMENTAL SAFETY

Studies indicate that when ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive. Drug containers and any residual contents should be disposed of safely (e.g., by burying or incinerating) as free ivermectin may adversely affect fish and certain water-borne organisms.

STORAGE

Store bottle in carton to protect from light.

PACKAGING

UNIMECTRIN Injection for Cattle, Sheep and Swine is available in two ready-to-use sizes: 200 mL and 500 mL.

200 mL: Product H41265 (CA), DIN 02243607, is contained in a soft, collapsible pack designed for use with automatic injection equipment.

500 mL: Product H41266 (CA), DIN 02243607, is also contained in a soft, collapsible pack designed for use with automatic injection equipment.

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UNIMECTRIN Injectable CANADA – Insert – 2050-2135-00

PRINTER, please read for SPECIAL INSTRUCTIONS

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