

# ADIFFERENT CLASS OF CATTLE DEWORMER.





# WHY DEWORMING MATTERS:

Cattle parasites can cause a host of problems in cattle, from reduced milk production and reproductive performance to increased disease susceptibility.<sup>1,2</sup>
This can occur even with subclinical infection, when symptoms may not be noticeable.

That's why having a consistent deworming protocol is so important. And when it comes to choosing a dewormer, many products are in the same chemical class, even if the brand name is different. This can make it confusing when trying to choose the right dewormer for your operation's needs.

ONLY Cydectin® (moxidectin) cattle dewormers are in the milbemycin chemical class.

This puts Cydectin in a class of its own compared to other macrocyclic lactone (ML) dewormers.

#### **MACROCYCLIC LACTONES**

MILBEMYCINS

MOXIDECTIN

IVERMECTIN

DORAMECTIN

EPRINOMECTIN

### MOXIDECTIN HAS A UNIQUE MOLECULAR STRUCTURE.



The structure differs from those of avermectin products e.g., ivermectin, doramectin and eprinomectin.



It allows for wide distribution in the fat, which enables extended activity to kill key parasites for up to 42 days.<sup>3</sup>

#### **IVERMECTIN**

e.g., Ivomec® (ivermectin) Injection

#### **DORAMECTIN**

e.g., Dectomax® (doramectin) Injectable

#### **EPRINOMECTIN**

e.g., LongRange® (eprinomectin)

#### **MOXIDECTIN**

e.g., Cydectin® (moxidectin) Injectable

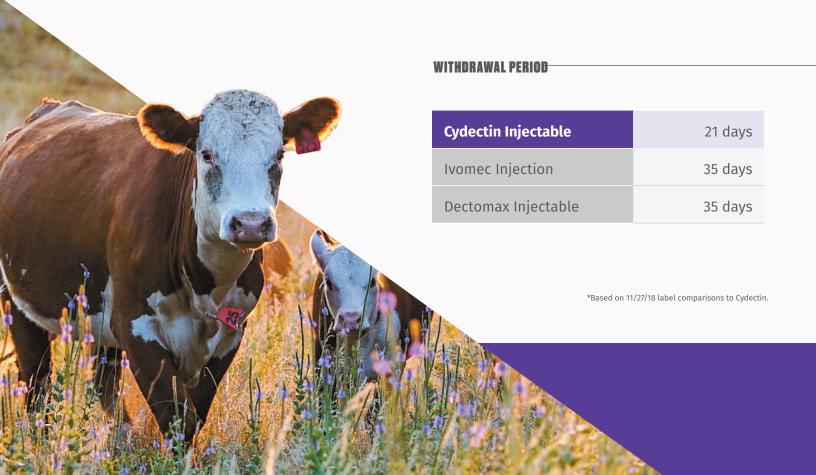
Researchers have estimated that without dewormers, cow-calf producers would sacrifice more than \$165 per head in lost returns on break-even selling price.<sup>4</sup> And for the beef production system overall, the impact of eliminating dewormers on break-even prices totaled \$190 per head.<sup>4</sup>

## SHORT WITHDRAWAL. LONG PERSISTENCY.

Cydectin® (moxidectin) Injectable has a **short withdrawal period** and offers **long-lasting**, **persistent control of key internal parasites.\*** 

#### PERSISTENT KILLING ACTIVITY

	Ostertagia ostertagi (brown stomach worm)	Haemonchus placei (barber pole worm)	Trichostrongylus axei (stomach hairworm)	Oesophagostomum radiatum (nodular worm)	Dictyocaulus viviparus (lungworm)
Cydectin Injectable	14 days	35 days	14 days	42 days	42 days
Ivomec® (ivermectin) Injection	21 days	14 days	21 days	28 days	28 days
Dectomax® (doramectin) Injectable	21 days	14 days	0 days	28 days	28 days



## TREAT INFECTIONS AND INFESTATIONS DUE TO:



#### **ROUNDWORMS** (12 types)

#### Inhabit the abomasum:

- Ostertagia ostertagi (brown stomach worm)
- · Haemonchus placei (barber pole worm)
- Trichostrongylus axei (stomach hairworm)

#### Inhabit the small intestine:

- Trichostrongylus colubriformis (black scour worm)
- Cooperia oncophora (parasitic roundworm)
- Cooperia pectinata (parasitic roundworm)
- Cooperia punctata (parasitic roundworm)
- Cooperia spatulata (parasitic roundworm)
- · Cooperia surnabada (parasitic roundworm)
- Nematodirus helvetianus (parasitic roundworm)

#### Inhabit the large intestine:

- Oesophagostomum radiatum (nodular worm)
- Trichuris spp. (whipworm)

#### LUNGWORMS

#### Inhabit the lungs:

Dictyocaulus viviparus (lungworm)

#### **CATTLE GRUBS** (2 types)

#### Inhabit the hair and skin:

- Hypoderma bovis (northern cattle grub)
- Hypoderma lineatum (common cattle grub)

#### MITES

#### Inhabit the hair and skin:

· Psoroptes ovis (sheep scab mite)

#### LICE (2 types)

#### Inhabit the hair and skin:

- Linognathus vituli (long-nosed cattle louse)
- Solenopotes capillatus (little blue cattle louse)





#### **FOR USE IN:**

## CYDECTIN° (MOXIDECTIN) INJECTABLE NUMERICALLY OUTPERFORMS OTHER ML DEWORMERS IN 2017 STUDY. 5

The results of a 2017 independent study showed how the effectiveness of three ML dewormers was impacted by previous deworming treatments administered 118 days earlier. Effectiveness was measured by the percent reduction in the total number of nematode eggs in the feces of cattle — also known as fecal egg count reduction (FECR) — 15 days after treatment.

FIG.1: Percent FECR of cattle previously treated with a saline solution (control group)\*5

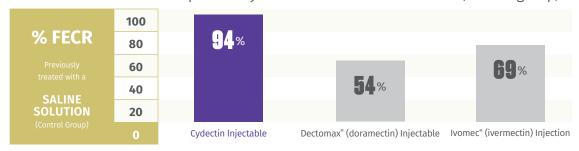
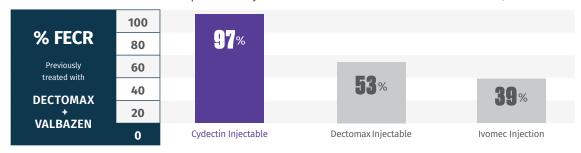


FIG. 2: Percent FECR of cattle previously treated with LongRange® (eprinomectin)\*5



FIG. 3: Percent FECR of cattle previously treated with Dectomax + Valbazen® (albendazole) Suspension\*5



\*Based on group arithmetic means.



## WHY SHOULD I USE AN INJECTABLE FORUMULATION?

If you haven't considered using one on your operation, you should know that an injectable has its own benefits.







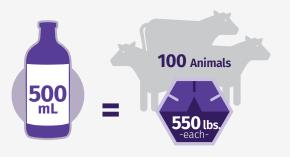


#### **CYDECTIN INJECTABLE BENEFITS:**

- Helps ensure proper dosage.
- This helps optimize efficacy while limiting the chance for resistance.
- Controls key internal parasites.
- Provides some external parasite control.
- · Is easy to use.
- No messy drench required.

## HOW MANY CATTLE CAN I TERAT WITH A BOTTLE OF CYDECTIN INJECTABLE?

Cydectin Injectable is available in a 500 mL bottle, which will treat 100 animals weighing 550 lbs. each.



## • HOW DO I APPLY CYDECTIN INJECTABLE?

Administer one quick subcutaneous injection under the loose skin in front of, or behind, the shoulder. Apply at a rate of 1 mL for each 110 lbs. of bodyweight.



### **O:** WHERE CAN I LEARN MORE?

Contact your Elanco sales representative or visit ElancoLivestock. com for Cydectin product information, rebates and more.

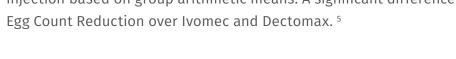


## **YOUR DEWORMING EXPECTATIONS.**

#### **CYDECTIN (MOXIDECTIN) INJECTABLE:**

- Unique active ingredient.
- ONLY cattle dewormer in the milbemycin chemical class.
- Short 21-day withdrawal period.
- Long-lasting, persistent control of key internal parasites for up to 42 days.3
- 27% superior efficacy over Ivomec and Dectomax.

91% fecal egg count reduction compared to 41% for cattle treated with Dectomax® (doramectin) Injectable and 57% for cattle treated with Ivomec® (ivermectin) Injection based on group arithmetic means. A significant difference in mean Fecal



#### Learn more at **Elanco.US**

#### Keep out of reach of children.

#### **IMPORTANT SAFETY INFORMATION:**

Cattle must not be slaughtered for human consumption within 21 days of treatment. This drug is not approved for use in female dairy cattle 20 months of age or older, including dry dairy cows. Use in these cattle may cause drug residues in milk and/or in calves born to these cows. A withdrawal period has not been established for preruminating calves. Do not use in calves to be processed for veal.

<sup>1</sup>Gadberry, S., Powell, J. "Internal parasites in beef and dairy cattle." University of Arkansas Division of Agriculture Cooperative Extension Service website. Available at: https://www.uaex.uada.edu/publications/pdf/FSA-3045.pdf. Accessed November 1, 2018.
<sup>2</sup>Smith, R., Rogers, K., Huse, S., et al. 2000. "Pasture deworming and (or) subsequent feedlot deworming with fenbendazole and its effects on grazing performance, feedlot performance and carcass traits of yearling steers." Bovine Practitioner. 34(2):104-114.



Lawrence, J., Ibarburu, M. 2006. "Économic analysis of pharmaceutical technologies in modern beef production." Available at: www2.econ.iastate.edu/faculty/lawrence/pharmaeconomics2006.pdf. Accessed November 9, 2018.

Yazwinski, T., Tucker, C., Powell, J. et al. 2017. "A fecal egg count reduction test evaluating macrocyclic lactones using cattle treated 118 days earlier with saline, albendazole in combination with doramectin, or an extended-release formulation of eprinomectin." Boy Pract. 51(1):28-33.