

Nematodirus (shown here), also known as the thread-necked intestinal worm, is an unsightly parasite that causes infections marked by diarrhea and loss of appetite – both of which open the door for other internal parasites to cause even more damage.



**DON'T LET
MONSTROUS
PARASITES
BITE YOUR BOTTOM LINE**

Choose Safe-Guard® (fenbendazole) when you deworm to take out more profit-eating parasites.

SAFE-GUARD is proven to kill 98.7% of worms, remaining powerful and effective, even in the face of parasite resistance.¹ Choosing two dewormers from two different classes (like SAFE-GUARD + ivermectin) can help ensure you're getting the toughest parasites – and helping slow the growing issue of parasite resistance.

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IMPORTANT SAFETY INFORMATION: Do not use in beef calves less than 2 months old, dairy calves and veal calves. A withdrawal period has not been established for this product in pre-ruminating calves. Additionally, the following meat withdrawal and milk discard times apply: SAFE-GUARD Paste: Cattle must not be slaughtered for 8 days. For dairy cattle, the milk discard time is 96 hours. SAFE-GUARD Suspension: Cattle must not be slaughtered for 8 days. For dairy cattle, the milk discard time is 48 hours. SAFE-GUARD En-PRO-AL Type C Medicated Block: Cattle must not be slaughtered for 11 days. For use in beef cattle only. SAFE-GUARD 20% Protein Type C Medicated Block: Cattle must not be slaughtered for 16 days. For use in beef cattle only. SAFE-GUARD medicated feed products (pellets, cubes, free-choice mineral, or free-choice liquid): Cattle must not be slaughtered for 13 days. For dairy cattle, the milk discard time is 60 hours.

¹Reinhardt CD, et al. A fenbendazole oral drench in addition to an ivermectin pour-on reduces parasite burden and improves feedlot and carcass performance of finishing heifers compared with endectocides alone. *J Anim Sci.* 2006;84(8):2243-50.

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GO TO THE HEAD OF THE CLASS - OF DEWORMERS.

When two dewormers are better than one.¹

As you know, parasites compete with cattle for nutrition, suppressing dry matter intake and decreasing average daily gain, meaning they literally suck profit from your operation.² Which is one reason effective parasite control is critical for cattle performance and profitability.

But did you know that parasites directly suppress the immune system, decreasing the animal's ability to fight infection or respond to vaccines?

All these reasons are why choosing a dewormer – or two – is an important decision.

Two? Yes. Parasite researchers now recommend using two classes of dewormers (typically one benzimidazole and one macrocyclic lactone) for both effectiveness and to help curb dewormer resistance issues.¹

Double Down on Resistance

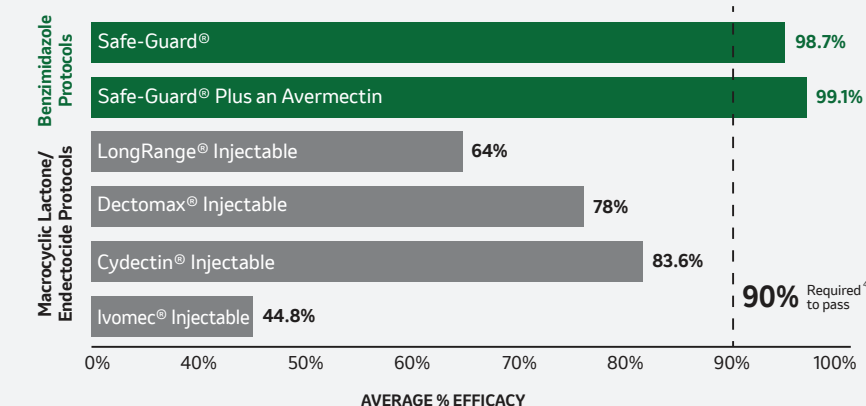
Benzimidazole Class (look for the "-zole")	Macrocyclic Lactone (ML) /Endectocide Class (look for the "-ectin")*
Fenbendazole (Safe-Guard®)	Ivermectin (Ivomec®, generics)
Oxfendazole	Doramectin (Dectomax®)
Albendazole	Moxidectin (Cydectin®)
○	Eprinomectin (Eprinex®, LongRange®)

*Macrocyclic lactones can also be broken down into avermectins and milbemycins but are still the same class.

Widespread use of endectocides over the last 40 years has contributed to a growing resistance concern. This is primarily because resistance to one brand or compound of endectocide may cause resistance to other members of the same class. This is known as side resistance.

This is also why it is important to look beyond brand names and active ingredients and choose products from different classes.

All formulations of SAFE-GUARD exceed the 90% reduction goal as measured by FECRT testing.³



Expert opinion now suggests that if you're using a dewormer with an active ingredient that ends in "-ectin," you should choose another product with an active that ends in "-zole."⁵

This also ensures that you're getting both tough internal parasites that "-zoles" like SAFE-GUARD® (fenbendazole) excel at, including brown stomach worm (*Ostertagia*), small intestinal worms (*Cooperia*) and threadneck worms (*Nematodirus*), as well as the internal and external parasites that endectocides cover.

Start Strong with SAFE-GUARD¹

Treatment	Percent Efficacy**
SAFE-GUARD Alone	98.7%
SAFE-GUARD + Ivermectin/Endectocide	99.1%
Ivermectin/Endectocide Pour-On Alone	45.9%
Ivermectin/Endectocide Injectable Alone	39.4%

**As measured by the National Fecal Egg Count Reduction Test Database

Improving your deworming program doesn't have to be difficult. By using SAFE-GUARD, you can kill more of those monstrous parasites than you could with ivermectin alone.

Put Your Dewormer to the Test

Of course, whatever deworming program you're using, you need to check that it's working. The fecal egg count reduction test (FECRT) is the gold standard in efficacy testing on live animals. It will not only tell you which parasites you're dealing with, but also if they're responding to your current program.

Proper parasite management is the cornerstone of your animal health program.

That's why understanding which products belong to which class and consulting with your veterinarian can help producers make the right herd health decisions and aid in the development of parasite control programs that help achieve your operational goals.

¹Reinhardt, et al. A fenbendazole oral drench in addition to an ivermectin pour-on reduces parasite burden and improves feedlot and carcass performance of finishing heifers compared with endectocides alone. *J Anim Sci.* 2006;84(8):2243-2250.

²Lawrence JD, Ibarburu MA. Economic analysis of pharmaceutical technologies in modern beef production. *Proceedings of the NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management.* 2007;1-18.

³Merck Animal Health National FECRT Database.

⁴Coles, et al. WAAVP methods for the detection of anthelmintic resistance in nematodes of veterinary importance. *Vet Parasitol.* 1992;44(1-2):35-44.

⁵Data on file, Merck Animal Health.