

Key Highlights

This study highlights investing between \$1.50 to \$1.80 per head in a SAFE-GUARD oral drench dose has, on average, created \$17.18 of additional value—resulting in an ROI of 10:1 over an average 160-day feeding period.⁵

SAFE-GUARD[®] (fenbendazole) oral drench in combination with Ivomec[®] (Ivermectin) improved feedlot and carcass performance compared to endectocides alone.

A summary from four large-scale feedlot research trials.

ABSTRACT

In feedlot cattle, internal parasites have been shown to reduce feed intake, decrease weight gain, increase the amount of feed needed per pound of gain and reduce the animal's ability to ward off disease because of impaired immunity.¹

In three out of four large-scale feedlot trials with 10,381 animals, SAFE-GUARD (fenbendazole) oral drench in combination with an Ivomec pour-on (PO) or injectable shows a clear advantage in dry matter intake, feedlot gain, improved health and pounds of beef produced.

TRIAL SUMMARIES

SAFE-GUARD + Ivomec Injectable vs. Cydectin[®] (moxidectin) Injectable²

SAFE-GUARD treated cattle had significantly higher daily feed intake, average daily gains, total live weight gain and hot carcass weights. SAFE-GUARD treated cattle had significantly reduced morbidity compared to Cydectin Injectable alone.

The SAFE-GUARD cattle group had an economic advantage of \$19.62/head compared to the Cydectin Injectable cattle group.

Table 1

	SG + IVMINJ	CYDINJ	SG+IVMNJ ADV.	P-Value
Initial weight, lbs.	831	838	-	0.14
Dry matter intake, lbs./day	22.0	21.6	0.4	0.07
Average daily gain, lbs.	3.34	3.23	0.11	0.08
Morbidity, %	11.54	17.44	(5.90)	0.03
Total live weight gain, lbs.	542	514	28	0.03
Hot carcass weight, lbs.	882	867	15	0.05
Value created with SG + IVMINJ ³	\$19.62			

SAFE-GUARD + Ivomec PO vs. Dectomax® (*doramectin*) Injectable³

Daily feed intake, daily gain, total live weight gain and hot carcass weight were improved using SAFE-GUARD oral drench in combination with Ivomec PO vs. cattle treated with Dectomax Injectable alone. Small intestine worm count was reduced when using SAFE-GUARD + Ivomec PO vs. Dectomax Injectable alone.

The performance benefit resulted in an increased value of \$9.01/head.

Table 2

	SG + IVPO	DMXINJ	SG + IVPO ADV.	P-Value
Initial weight, lbs.	705	697	-	0.19
Dry matter intake, lbs./day	22.8	21.67	1.13	0.01
Average daily gain, lbs.	3.26	3.13	0.13	0.06
Total live weight gain, lbs.	498	478	19.8	0.01
Hot carcass weight, lbs.	780	763	17.6	0.01
Small intestine worm count (total), slaughter	16	2,425	(2,409)	0.01
Value created with SG + IVPO ⁵			\$9.01	

SAFE-GUARD + Ivomec Injectable vs. Ivomec or SAFE-GUARD⁴

Treatment with a combination of SAFE-GUARD oral drench and Ivomec Injectable was more effective at reducing parasite burden in feedlots.

SAFE-GUARD plus Ivomec proved to be more effective on reducing brown stomach worm (*Ostertagia*) and fecal egg counts vs. an endectocide alone.

Table 3

	SG + IVMNJ	IVMNJ	SG	P-Value
Initial weight, lbs.	606	602	605	0.43
Dry matter intake, lbs./day	17.33	17.45	17.36	0.64
Average daily gain, lbs.	3.04	3.08	3.09	0.45
Total live weight gain, lbs.	551	560	564	0.41
Hot carcass weight, lbs.	758	757	762	0.61
Fecal egg counts (eggs/g), D 30 on feed	0.03	7.97	0.05	0.01
Reduced worm count				
<i>Cooperia</i> , slaughter (adult)	0	120	0	0.14
<i>Ostertagia</i> , slaughter (adult)	510	1,320	890	0.05
Value created with SG + IVMINJ ⁵			\$4.20	

SAFE-GUARD + Ivomec PO vs. Ivomec PO³

Cattle treated with SAFE-GUARD oral drench and Ivomec PO had improved health, with significantly fewer repulls.

The cattle in the SAFE-GUARD group had significantly higher feed intake, average daily gain, total live weight gain and hot carcass weight. These performance benefits resulted in an increased value/hd of \$22.19.

Table 4

	SG + IVPO	IVPO	SG + IVPO ADV.	P-Value
Initial weight, lbs.	745	743	-	0.83
Dry matter intake, lbs./day	17.83	17.39	0.44	0.04
Average daily gain, lbs.	3.40	3.26	0.13	0.01
Total morbidity, %	19.69	24.32	(4.63)	0.12
Total repulls, %	47.07	58.81	(11.74)	0.02
Total live weight gain, lbs.	459	443	15.4	0.01
Hot carcass weight, lbs.	745	734	11	0.01
Fecal egg counts, slaughter (eggs/g)	2.17	6.82	(4.65)	0.06
Value created with SG + IVPO ⁵			\$22.19	

Average value/hd reflects:

- Carcass price of \$146/cwt
- Live price of \$92/cwt, fall 2007
- \$230/ton dry matter ration cost x feed consumed
- SAFE-GUARD drench, Ivomec, Cydectin (by treatment), viral vaccines and implants
- Yardage at \$.25/hd/day
- Incremental profit margin prior to the cost of SAFE-GUARD

SAFE-GUARD drench has an 8-day withdrawal.

Dectomax Injectable has a 35-day slaughter withdrawal.

Cydectin Injectable has a 21-day slaughter withdrawal.

Ivomec PO has a 48-day slaughter withdrawal.

Ivomec Injectable has a 35-day slaughter withdrawal.

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

This Technical Bulletin is a summary of a scientific publication and/or may contain data obtained from investigational use/s of the product. Please refer to the attached PI for the approved use(s) of the product(s). Use the product only as directed. If you have further questions on the information contained in this Technical Bulletin, the MAH sales representative will put you in contact with our scientific service department

REFERENCES

- ¹Snider et. Al; 1986; Wiggin and Gibbs, 1990, Gomen-Muzon et. Al; 2004.
- ²J.P. Hutcheson, S.T. Nordstrom, H.L. Newcomb and T.A. Shelton; Intervet Inc., Millsboro, DE.
- ³C.D. Reinhardt, J.P. Hutcheson, and W.T. Nichols *Journal of Animal Science*, 2006, 84:2243-2250.
- ⁴J.P. Hutcheson and Wade T. Nichols, Chris D. Reinhardt, Marshall Streeter and David Yates; Intervet Inc; Millsbora, DE a/b. SAFE-GUARD treatment group statistically equivalent to other treatments on all health and performance parameters.
- ⁵Dr. Thomas E. Elam, FarmEcon.Com, 2007. Average value/hd based on the March 1, 2007, pricing grid of Swift's Grand Island, Nebraska, packing plant and March 11, 2007, USDA cit-out value of \$155.60/cwt for standard grade carcasses. Average value/hd reflects incremental profit margin prior to the cost of SAFE-GUARD.

LABEL

SAFE-GUARD®

Intervet/Merck Animal Health
(fenbendazole)

Dewormer for Beef & Dairy Cattle and Goats

Suspension 10% (100 mg/mL)

Withdrawal Periods and Residue Warnings: Milk taken from cows during treatment and for 48 hours after the last treatment must not be used for human consumption. Cattle must not be slaughtered for human consumption within 8 days following last treatment with this drug product. Not for use in beef calves less than 2 months of age, dairy calves, and veal calves. A withdrawal period has not been established for this product in pre-ruminating calves.

Goats must not be slaughtered for human consumption within 6 days following last treatment with this drug product. Because a milk discard time has not been established, do not use in lactating goats.

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

INDICATIONS: Beef and Dairy Cattle: 2.3 mg/lb. (5 mg/kg) body weight for the treatment and control of: **Lungworms:** Adult *Dictyocaulus viviparus*; **Stomach worms:** Adult brown stomach worms (*Ostertagia ostertagi*), Adult and fourth stage larvae barberpole worms (*Haemonchus contortus* & *H. placei*), and Adult and fourth stage larvae small stomach worms (*Trichostrongylus axei*); **Intestinal worms** (Adult and fourth stage larvae): hookworms (*Bunostomum phlebotomum*), thread-necked intestinal worms (*Nematodirus helvetianus*), small intestinal worms (*Cooperia punctata* & *C. oncophora*), bankrupt worms (*Trichostrongylus colubriformis*), and nodular worms (*Oesophagostomum radiatum*).

Goats: 2.3 mg/lb. (5 mg/kg) body weight for the treatment and control of: **Stomach worms** (adults): *Haemonchus contortus* and *Teladorsagia circumcincta*.

DIRECTIONS: Administer orally. The recommended dose of 2.3 mg/lb. (5 mg/kg) of body weight is achieved when 2.3 mL of the drug are given for each 100 lbs. body weight.

EXAMPLES:

Cattle:

Body Weight	Amount
100 lbs.	2.3 mL
200 lbs.	4.6 mL
300 lbs.	6.9 mL
400 lbs.	9.2 mL
500 lbs.	11.5 mL
1000 lbs.	23.0 mL
1500 lbs.	34.5 mL

Goats:

Body Weight	Amount
25 lbs.	0.6 mL
50 lbs.	1.2 mL
75 lbs.	1.7 mL
100 lbs.	2.3 mL
125 lbs.	2.9 mL

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.

WARNINGS: NOT FOR USE IN HUMANS. KEEP OUT OF REACH OF CHILDREN. The Safety Data Sheet (SDS) contains more detailed occupational safety information. For customer service, adverse effects reporting, and/or a copy of the SDS, call 1-800-211-3573. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDAVETS or <http://www.fda.gov/reportanimalae>.

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 tests and parasite management history should be used to determine if the product is appropriate for the herd, 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 overtime 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.

Store at or below 25°C (77°F).

Protect from freezing. Shake well before use.

Restricted drug (California)—use only as directed.

Fenbendazole (active ingred.) made in: see imprint.

Formulated in France.

Distributed by: Intervet Inc (d/b/a Merck Animal Health), Rahway, NJ 07065

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1,000 mL (33.8 fl oz)	Rev. 03/22 361394 R9 Rev. 04/2024 217157 R1
1 Gallon (3,785 mL)	Rev. 04/23 168960 R1 Rev. 04/2024 217158 R1
10 Liter (338.1 fl oz)	Rev. 11/20 385311 R8 Rev. 04/2024 217159 R1

CPN: 1047396.5

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 Suspension: Cattle must not be slaughtered for 8 days. For dairy cattle, the milk discard time is 48 hours.

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