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days; withdraw from dry dairy cows and heifers 21 days prior to freshening; withdraw 4 days prior to slaughter.

(2) *Amount.* 2.3 milligrams per pound body weight per day.

(i) *Indications for use.* For control of grubs.

(ii) *Limitations.* For beef cattle and nonlactating dairy cows; feed for 10 days; withdraw from dry dairy cows and heifers 21 days prior to freshening; withdraw 4 days prior to slaughter.

[41 FR 11000, Mar. 15, 1976, as amended at 51 FR 7397, Mar. 3, 1986; 57 FR 7652, Mar. 4, 1992; 62 FR 55161, Oct. 23, 1997; 62 FR 61626, Nov. 19, 1997]

§ 558.258 **Fenbendazole.**

(a) *Specifications.* Type A medicated articles: 4 percent (18.1 grams per pound (g/lb)), 8 percent (36.2 g/lb), and 20 percent (90.7 g/lb) fenbendazole.

(b) *Approvals.* See No. 057926 in § 510.600(c) of this chapter.

(c) *Related tolerances.* See § 556.275 of this chapter.

(d) *Special considerations.* See § 500.25 of this chapter.

(e) *Conditions of use—(1) Turkeys.*

Amount fenbendazole in grams per ton	Combination in grams per ton	Indications for use	Limitations	Sponsor
14.5 (16 parts per million).	Growing turkeys: For the removal and control of gastrointestinal worms: round worms, adult and larvae (<i>Ascaridia dissimilis</i>); cecal worms, adult and larvae (<i>Heterakis gallinarum</i>), an important vector of <i>Histomonas meleagridis</i> (Blackhead).	Feed continuously as the sole ration for 6 days. For growing turkeys only.	057926

(2) *Swine.*

Amount fenbendazole in grams per ton	Combination in grams per ton	Indications for use	Limitations	Sponsor
(i) 10 to 300 (to provide 9 milligrams per kilogram (mg/kg) of body weight) given over a 3- to 12-day period.	For the removal and control of: Adult stage lungworms (<i>Metastrongylus apri</i> and <i>M. pudendotectus</i>); adult and larvae (L3, 4 stages—liver, lung, intestinal forms) large roundworms (<i>Ascaris suum</i>); adult stage nodular worms (<i>Oesophagostomum dentatum</i> , <i>O. quadrispinulatum</i>); adult stage small stomach worms (<i>Hyostromylus rubidus</i>); adult and larvae (L2, 3, 4 stages—intestinal mucosal forms) whipworms (<i>Trichuris suis</i>); adult and larvae kidney worms (<i>Stephanurus dentatus</i>).	Feed as sole ration	057926
(ii) 10 to 80 (to provide 9 mg/kg of body weight).	Lincomycin 20.	As in paragraph (e)(2)(i) of this section; for increased rate of gain in growing-finishing swine.	Feed as sole ration. Do not feed to swine that weigh more than 250 pounds (lbs); lincomycin as provided by 000009 in § 510.600(c) of this chapter.	057926
(iii) 10 to 80 (to provide 9 mg/kg of body weight).	Lincomycin 40.	As in paragraph (e)(2)(i) of this section; for control of swine dysentery in animals on premises with a history of swine dysentery, but where symptoms have not yet occurred.	Feed as sole ration. Do not feed to swine that weigh more than 250 lbs.; lincomycin as provided by 000009 in § 510.600(c) of this chapter.	057926
(iv) 10 to 80 (to provide 9 mg/kg of body weight).	Lincomycin 100.	As in paragraph (e)(2)(i) of this section; for the treatment of swine dysentery.	Feed as sole ration. Do not use within 6 days of slaughter. Do not feed to swine that weigh more than 250 lbs.; lincomycin as provided by 000009 in § 510.600(c) of this chapter.	057926

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Amount fenbendazole in grams per ton	Combination in grams per ton	Indications for use	Limitations	Sponsor
(v) 10 to 80 (to provide 9 mg/kg of body weight).	Lincomycin 200.	As in paragraph (e)(2)(i) of this section; for reduction in the severity of swine mycoplasmal pneumonia caused by <i>Mycoplasma hyopneumoniae</i> .	Feed as sole ration. Do not use within 6 days of slaughter. Do not feed to swine that weigh more than 250 pound (lb); lincomycin as provided by 000009 in § 510.600(c) of this chapter.	057926
(vi) 10 to 300 (to provide 9 mg/kg of body weight).	Bacitracin methylene disalicylate 10 to 30.	Growing/finishing swine: As in paragraph (e)(2)(i) of this section; for increased rate of weight gain and improved feed efficiency.	Feed as sole ration. Under conditions of continued exposure to parasites, retreatment may be needed after 4 to 6 weeks. Bacitracin methylene disalicylate as provided by 046573 in § 510.600(c) of this chapter.	046573
(vii) 10 to 300 (to provide 9 mg/kg of body weight).	Bacitracin methylene disalicylate 250.	1. Growing/finishing swine: As in paragraph (e)(2)(i) of this section; for control of swine dysentery associated with <i>Treponema hyodysenteriae</i> on premises with a history of swine dysentery, but where signs of disease have not yet occurred; or following an approved treatment of the disease condition.	1. Growing/finishing swine: Feed as sole ration. Not for use in growing and finishing swine that weigh more than 250 lbs. Diagnosis of swine dysentery should be confirmed by a veterinarian when results are not satisfactory. Under conditions of continued exposure to parasites, retreatment may be needed after 4 to 6 weeks. Bacitracin methylene disalicylate as provided by 046573 in § 510.600(c) of this chapter.	046573
.....	2. Pregnant sows: As in paragraph (e)(2)(i) of this section; for control of clostridial enteritis in suckling pigs caused by <i>Clostridium perfringens</i> .	2. Pregnant sows: Feed as sole ration. Diagnosis of clostridial enteritis should be confirmed by a veterinarian when results are not satisfactory. Under conditions of continued exposure to parasites, retreatment may be needed after 4 to 6 weeks. Bacitracin methylene disalicylate as provided by 046573 in § 510.600(c) of this chapter.	

(3) Cattle—(i) Conditions of use are as follows:

Amount fenbendazole in grams per ton	Combination in grams per ton	Indications for use	Limitations	Sponsor
(A) 5 mg/kg body weight (2.27 mg/lb).	For the removal and control of lungworms (<i>Dictyoacaulus viviparus</i>); barberpole worms (<i>Haemonchus contortus</i>); brown stomach worms (<i>Ostertagia ostertagi</i>); small stomach worms (<i>Trichostrongylus axei</i>); hookworms (<i>Bunostomum phlebotomum</i>); thread-necked intestinal worms (<i>Nematodirus helvetianus</i>); small intestinal worms (<i>Cooperia oncophora</i> and <i>C. punctata</i>), bankrupt worms (<i>Trichostrongylus colubriformis</i>), and nodular worms (<i>Oesophagostomum radiatum</i>).	Feed as sole ration for one day. Do not use within 13 days of slaughter.	057926
(B) 5 mg/kg body weight (2.27 mg/lb) in a free-choice feed.	As in paragraph (e)(3)(i)(A) of this section.	Formulate as specified in paragraph (e)(3)(ii) of this section. Feed a total of 5 mg of fenbendazole per kg (2.27 mg/lb) of body weight to cattle over a 3- to 6-day period. Retreatment may be needed after 4 to 6 weeks. Do not slaughter within 13 days following last treatment.	057926

(ii) Formulate for use as a free-choice cattle feed as in paragraph (e)(3)(i)(B) of this section as follows:

Ingredient ¹	Percent	International feed No.
(A) Ingredient:		
Copper sulfate	0.45	6–01–720
Dried Cane Molasses	3.12	4–04–695
Monosodium phosphate	31.16	6–04–288
Salt (sodium chloride)	59.00	6–04–152
Zinc sulfate	0.76	6–05–556
Fenbendazole Type A article (20%)	5.51	
(B) Ingredient:		
Dicalcium phosphate	32.31	6–00–080
Limestone	17.13	6–02–632

Ingredient ¹	Percent	International feed No.
Magnesium oxide	9.79	6–02–756
Zinc sulfate	1.47	6–05–556
Copper sulfate	0.29	6–01–720
Potassium iodide	0.0098	6–03–759
Dried Cane Molasses	0.98	4–04–695
Selenium	0.0002	
Salt	35.93	6–04–152
Fenbendazole Type A article (20%)	2.09	

¹The content of any added vitamin and trace mineral may be varied; however, they should be comparable to those used by the firm for other free-choice feeds. Formulation modifications require FDA approval prior to marketing. The amount of selenium must comply with published regulations.

(4) Zoo and wildlife animals.

Species/Class	Amount fenbendazole	Indications for use	Limitations	Sponsor
(i) Feral swine (<i>Sus scrofa</i>).	3 mg/kg/day for 3 days..	For the removal and control of kidney worm (<i>Stephanurus dentatus</i>), roundworm (<i>Ascaris suum</i>), nodular worm (<i>Oesophagostomum dentatum</i>).	Use as complete feed. Prior withdrawal of feed or water is not necessary. Retreatment may be required in 6 weeks. Do not use 14 days before or during the hunting season.	057926

Species/Class	Amount fenbendazole	Indications for use	Limitations	Sponsor
(ii) Ruminants (subfamily Antilopinae, Hippotraginae, Caprinae).	2.5 mg/kg/day for 3 days..	For the removal and control of small stomach worm (<i>Trichostrongylus</i> spp.), thread necked intestinal worm (<i>Nematodirus</i> spp.), barberpole worm (<i>Haemonchus</i> spp.), whipworm (<i>Trichuris</i> spp.).	Use as complete feed. Prior withdrawal of feed or water is not necessary. Retreatment may be required in 6 weeks. Do not use 14 days before or during the hunting season.	057926
(iii) Rocky mountain bighorn sheep (<i>Ovis c. canadensis</i>).	10 mg/kg/day for 3 days..	For the removal and control of <i>Protostrongylus</i> spp.	Use as complete feed. Prior withdrawal of feed or water is not necessary. Retreatment may be required in 6 weeks. Do not use 14 days before or during the hunting season.	057926

[66 FR 58935, Nov. 26, 2001]

§ 558.265 Halofuginone hydrobromide.

(a) *Approvals.* Type A medicated articles: 6 grams per kilogram (2.72 grams per pound) to 057926 in §510.600(c) of this chapter.

(b) *Related tolerances.* See §556.308 of this chapter.

(c) *Conditions of use.* (1) It is used in feed for broiler chickens as follows:

(i) *Amount.* 2.72 grams per ton.

(A) *Indications for use.* For the prevention of coccidiosis caused by *Eimeria tenella*, *E. necatrix*, *E. acervulina*, *E. brunetti*, *E. mivati*, and *E. maxima*.

(B) *Limitations.* Feed continuously as sole ration; withdraw 4 days before slaughter; do not feed to layers; avoid contact with skin, eyes, or clothing; keep out of lakes, ponds, or streams.

(ii) *Amount per ton.* Halofuginone 2.72 grams (0.0003 percent) plus bambarmycins 1 to 2 grams.

(A) *Indications for use.* For the prevention of coccidiosis caused by *Eimeria tenella*, *E. necatrix*, *E. acervulina*, *E. brunetti*, *E. mivati*, and *E. maxima*; for increased rate of weight gain and improved feed efficiency.

(B) *Limitations.* Feed continuously as sole ration; withdraw 5 days before slaughter; do not feed to layers.

(iii) *Amount per ton.* Halofuginone 2.72 grams (0.0003 percent) plus virginiamycin 5 grams.

(A) *Indications for use.* For the prevention of coccidiosis caused by *Eimeria tenella*, *E. necatrix*, *E. acervulina*, *E. brunetti*, *E. mivati*, and *E. maxima*; for increased rate of weight gain and improved feed efficiency.

(B) *Limitations.* Feed continuously as sole ration; withdraw 6 days before slaughter; do not feed to layers.

(iv) *Amount per ton.* Halofuginone 2.72 grams (0.0003 percent) plus virginiamycin 5 to 15 grams.

(A) *Indications for use.* For the prevention of coccidiosis caused by *Eimeria tenella*, *E. necatrix*, *E. acervulina*, *E. brunetti*, *E. mevati*, and *E. maxima*; for increased rate of weight gain.

(B) *Limitations.* Feed continuously as sole ration; withdraw 6 days before slaughter; do not feed to layers.

(v) *Amount per ton.* Halofuginone hydrobromide 2.72 grams (0.0003 percent) plus bacitracin methylene disalicylate 10 to 50 grams and roxarsone 22.7 to 45.4 grams.

(A) *Indications for use.* For the prevention of coccidiosis caused by *Eimeria tenella*, *E. necatrix*, *E. acervulina*, *E. brunetti*, *E. mivati*, and *E. maxima*; for increased rate of weight gain; and for improved feed efficiency.

(B) *Limitations.* Feed continuously as sole ration; withdraw 5 days before slaughter; use as sole source of organic arsenic; do not feed to layers; avoid contact with skin, eyes, or clothing; keep out of lakes, ponds, or streams.

(vi) *Amount per ton.* Halofuginone 2.72 grams (0.0003 percent) plus bacitracin methylene disalicylate 10 to 50 grams.

(A) *Indications for use.* For the prevention of coccidiosis caused by *Eimeria tenella*, *E. necatrix*, *E. acervulina*, *E. brunetti*, *E. mevati*, *E. maxima* and for improved feed efficiency.

(B) *Limitations.* Feed continuously as sole ration; withdraw 5 days before slaughter; do not feed to layers; avoid