

(ii) *Amount per ton.* 100 grams; 40 grams.

(a) *Indications for use.* For treatment and control of swine dysentery.

(b) *Limitations.* Feed 100 grams per ton for 3 weeks or until signs of disease disappear, followed by 40 grams per ton; feed as sole ration; not to be fed to swine that weigh more than 250 pounds; feed containing 100 grams per ton lincomycin hydrochloride should be withdrawn 6 days before slaughter.

(iii) *Amount per ton.* 100 grams.

(a) *Indications for use.* For treatment of swine dysentery.

(b) *Limitations.* Feed as sole ration for 3 weeks or until signs of disease disappear; not to be fed to swine that weigh more than 250 pounds; withdraw 6 days before slaughter.

(iv) *Amount per ton.* 200 grams.

(a) *Indications for use.* For reduction in the severity of swine mycoplasmal pneumonia caused by *Mycoplasma hyopneumoniae*.

(b) *Limitations.* Feed as sole ration for 21 days; not to be fed to swine that weigh more than 250 pounds; withdraw 6 days before slaughter.

(v) *Amount per ton.* 20 grams.

(a) *Indications for use.* For increased rate of weight gain in growing-finisher swine.

(b) *Limitations.* Feed as sole ration; not for use in swine weighing over 250 pounds.

(3) Lincomycin may also be used for broilers in combination with:

(i) Amprolium, ethopabate, and roxarsone in accordance with §§ 558.58 and 558.530.

(ii) Amprolium and ethopabate in accordance with § 558.58.

(iii) Clopidol in accordance with § 558.175.

(iv) [Reserved]

(v) Decoquinatate in accordance with § 558.195.

(vi) Zoalene in accordance with § 558.680.

(vii) Monensin in accordance with § 558.355.

(viii) Robenidine hydrochloride in accordance with § 558.515.

(ix) Roxarsone, monensin sodium in accordance with §§ 558.355 and 558.530.

(x) Lasalocid sodium in accordance with § 558.311.

(xi) Nicarbazine and roxarsone as in § 558.366.

(xii) Nicarbazine as in § 558.366.

(xiii) Lasalocid sodium and roxarsone as in § 558.311.

(xiv) Halofuginone in accordance with § 558.265.

(xv) Salinomycin with or without roxarsone as in § 558.550.

(4) Lincomycin may also be used for swine in combination with:

(i) Pyrantel tartrate as in § 558.485.

(ii) Fenbendazole as provided in § 558.258.

(iii) Ivermectin as in § 558.300.

[40 FR 13959, Mar. 27, 1975]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 558.325, see the List of CFR Sections Affected in the Finding Aids section of this volume.

**§ 558.340 Maduramicin ammonium.**

(a) *Approvals.* Type A medicated articles: 4.54 grams per pound to 000004 in § 510.600(c) of this chapter.

(b) *Tolerances.* See § 556.375 of this chapter.

(c) *Conditions of use.* (1) *Amount.* 4.54 to 5.45 grams per ton (5 to 6 parts per million) (1 to 1.2 pounds per ton).

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

(ii) *Limitations.* For broiler chickens only. Feed continuously as sole ration. Do not feed to laying hens. Withdraw 5 days before slaughter.

(2) [Reserved]

[54 FR 5229, Feb. 2, 1989, as amended at 54 FR 26732, June 26, 1989; 54 FR 32635, Aug. 9, 1989; 54 FR 33885, Aug. 17, 1989; 55 FR 23, Jan. 2, 1990; 55 FR 8460, Mar. 8, 1990; 55 FR 49616, Nov. 30, 1990; 59 FR 8134, Feb. 18, 1994; 61 FR 18082, Apr. 24, 1996]

**§ 558.342 Melengestrol acetate.**

(a) *Approvals.* Dry Type A medicated articles containing 100 or 200 milligrams per pound or liquid Type A article containing 500 milligrams per pound to 000009 in § 510.600(c) of this chapter.

(b) *Related tolerances.* See § 556.380 of this chapter.

(c) *Special considerations.* (1) Type B medicated feeds may be manufactured from melengestrol acetate liquid Type A articles or Type B medicated feeds

which have a pH of 4.0 to 8.0 and bear appropriate mixing directions as follows:

(i) For liquid Type B feeds stored in recirculating tank systems: Recirculate immediately prior to use for no less than 10 minutes, moving not less than 1 percent of the tank contents per minute from the bottom of the tank to the top. Recirculate daily as described even when not used.

(ii) For liquid Type B feeds stored in mechanical, air, or other agitation type tank systems: Agitate immediately prior to use for not less than 10 minutes, creating a turbulence at the bottom of the tank that is visible at the top. Agitate daily as described even when not used.

(2) A positionally stable melengestrol acetate liquid Type B feed will not be subject to the requirements for mixing directions prescribed in paragraphs (c)(1) of this section provided it has a pH of 4.0 to 8.0 and contains a suspending agent(s) sufficient to maintain a viscosity of not less than 300 centipoises per second for 3 months.

(d) *Conditions of use.* It is used for heifers as follows:

(1) *Amount.* Melengestrol acetate, 0.25 to 0.50 milligram per head per day.

(i) *Indications for use.* For increased rate of weight gain, improved feed efficiency, and suppression of estrus (heat).

(ii) *Limitations:* Heifers being fed for slaughter; administer 0.5 to 2.0 pounds per head per day of medicated feed containing 0.125 to 1.0 milligram of melengestrol acetate per pound to provide 0.25 to 0.50 milligram of melengestrol acetate per head per day. Melengestrol acetate as provided by No. 000009 in § 510.600(c) of this chapter.

(2) *Amount:* Melengestrol acetate, 0.25 to 0.40 milligram per head per day, plus monensin (as monensin sodium), 50 to 360 milligrams per head per day.

(i) *Indications for use.* For increased rate of weight gain, improved feed efficiency, and suppression of estrus (heat).

(ii) *Limitations:* Heifers being fed in confinement for slaughter. Add at the rate of 0.5 to 2.0 pounds per head per day a medicated feed (liquid or dry) containing 0.125 to 0.80 milligram of melengestrol acetate per pound to a feed containing 5 to 30 grams of

monensin per ton; or, add at the rate of 0.5 to 2.0 pounds per head per day a medicated feed (liquid or dry) containing 0.125 to 0.80 milligram of melengestrol acetate plus 25 to 720 milligrams of monensin per pound to a nonmedicated feed to provide 0.25 to 0.40 milligram of melengestrol acetate and 50 to 360 milligrams of monensin per head per day. The liquid medicated feeds must be manufactured in accordance with § 558.355(f)(3)(i). Melengestrol acetate and monensin as provided by Nos. 000009 and 000986, respectively, in § 510.600(c) of this chapter.

(3) *Amount.* Melengestrol acetate, 0.25 to 0.50 milligram per head per day in combination with lasalocid (as lasalocid sodium), 100 to 360 milligrams per head per day.

(i) *Indications for use.* For increased rate of weight gain, improved feed efficiency, and suppression of estrus (heat).

(ii) *Limitations.* Heifers being fed in confinement for slaughter. Add at the rate of 0.5 to 2.0 pounds per head per day a medicated feed (liquid or dry) containing 0.125 to 1.0 milligram of melengestrol acetate per pound to a feed containing 10 to 30 grams of lasalocid per ton; or, add at the rate of 0.5 to 2.0 pounds per head per day a medicated feed (liquid or dry) containing 0.125 to 1.0 milligram of melengestrol acetate plus 50 to 720 milligrams of lasalocid per pound to a ration of nonmedicated feed to provide 0.25 to 0.5 milligram of melengestrol acetate and 100 to 360 milligrams of lasalocid per head per day. Melengestrol acetate and lasalocid as provided by Nos. 000009 and 000004, respectively, in § 510.600(c) of this chapter.

(4) *Amount.* Melengestrol acetate, 0.25 to 0.50 milligram per head per day, plus tylosin (as tylosin phosphate), 90 milligrams per head per day.

(i) *Indications for use.* For increased rate of weight gain, improved feed efficiency, suppression of estrus (heat), and reduced incidence of liver abscesses.

(ii) *Limitations.* Heifers being fed in confinement for slaughter. Melengestrol acetate and tylosin as

provided by Nos. 000009 and 000986, respectively, in § 510.600(c) of this chapter. To administer 0.25 to 0.50 milligram of melengestrol acetate with 90 milligrams of tylosin per head per day:

(A) Add 0.5 to 2.0 pounds per head per day of a liquid or dry medicated feed containing 0.125 to 1.0 milligram of melengestrol acetate per pound to a medicated feed containing 8 to 10 grams of tylosin per ton; or

(B) Add 0.5 to 2.0 pounds per head per day of a liquid or dry medicated feed containing 0.125 to 1.0 milligram of melengestrol acetate per pound to 4.5 to 18 pounds of a dry medicated feed containing 10 to 40 grams of tylosin per ton; or

(C) Add 0.5 to 2.0 pounds per head per day of a dry medicated feed containing 0.125 to 1.0 milligram of melengestrol acetate (from a dry Type A article) plus 45 to 180 milligrams of tylosin per pound to a ration of nonmedicated feed.

(5) *Amount.* Melengestrol acetate, 0.25 to 0.50 milligram per head per day, plus monensin (as monensin sodium) at 50 to 360 milligrams per head per day, plus tylosin (as tylosin phosphate), 90 milligrams per head per day.

(i) *Indications for use.* For increased rate of weight gain, improved feed efficiency, suppression of estrus (heat), and reduced incidence of liver abscesses.

(ii) *Limitations.* Heifers being fed in confinement for slaughter. The liquid medicated feeds are required to be manufactured in accordance with § 558.355(f)(3)(i). Melengestrol acetate as provided by No. 000009 and monensin and tylosin as provided by No. 000986 in § 510.600(c) of this chapter. To administer 0.25 to 0.50 milligram of melengestrol acetate to 50 to 360 milligrams of monensin plus 90 milligrams of tylosin per head per day:

(A) Add 0.5 to 2.0 pounds per head per day of a liquid or dry medicated feed containing 0.125 to 1.0 milligram of melengestrol acetate per pound to a medicated feed containing 5 to 30 grams of monensin and 8 to 10 grams of tylosin per ton; or

(B) Add 0.5 to 2.0 pounds per head per day of a liquid or dry medicated feed containing 0.125 to 1.0 milligram of melengestrol acetate plus 25 to 720 mil-

ligrams of monensin per pound to 4.5 to 18 pounds of a dry medicated feed containing 10 to 40 grams of tylosin per ton; or

(C) Add 0.5 to 2.0 pounds per head per day of a dry medicated feed containing 0.125 to 1.0 milligram melengestrol acetate (from a dry Type A article), 25 to 600 milligrams of monensin, and 45 to 180 milligrams of tylosin per pound to a ration of nonmedicated feed.

(6) *Amount.* Melengestrol acetate, 0.25 to 0.50 milligram per head per day, plus lasalocid (as lasalocid sodium), 100 to 360 milligrams per head per day, and tylosin (as tylosin phosphate), 90 milligrams per head per day.

(i) *Indications for use.* For increased rate of weight gain, improved feed efficiency, suppression of estrus (heat), and reduced incidence of liver abscesses.

(ii) *Limitations.* Heifers being fed in confinement for slaughter. The liquid medicated feeds are required to be manufactured in accordance with § 558.311(d). Lasalocid, melengestrol acetate, and tylosin as provided by Nos. 000004, 000009, and 000986, respectively, in § 510.600(c) of this chapter. To administer 0.25 to 0.50 milligram of melengestrol acetate plus 100 to 360 milligrams of lasalocid plus 90 milligrams of tylosin per head per day:

(A) Add 0.5 to 2.0 pounds per head per day of a liquid or dry medicated feed containing 0.125 to 1.0 milligram of melengestrol acetate per pound to a medicated feed containing 10 to 30 grams of lasalocid and 8 to 10 grams of tylosin per ton; or

(B) Add 0.5 to 2.0 pounds per head per day of a liquid or dry medicated feed containing 0.125 to 1.0 milligram of melengestrol acetate plus 50 to 720 milligrams of lasalocid per pound to 4.5 to 18 pounds of a dry medicated feed containing 10 to 40 grams of tylosin per ton; or

(C) Add 0.5 to 2.0 pounds per head per day of a dry pelleted medicated feed containing 0.125 to 1.0 milligram of melengestrol acetate (from a dry Type A article), 50 to 720 milligrams of lasalocid, and 45 to 180 milligrams of tylosin per pound to a ration of nonmedicated feed.

(7) *Amount.* 0.5 milligram per head per day.

(i) *Indications for use.* For suppression of estrus (heat).

(ii) *Limitation.* Heifers intended for breeding. Do not exceed 24 days of feeding. Administer 0.5 to 2.0 pounds per head per day of Type C feed containing 0.25 to 1.0 milligram of melengestrol acetate per pound to provide 0.5 milligram of melengestrol acetate per head per day. Melengestrol acetate as provided by No. 000009 in § 510.600(c) of this chapter.

[42 FR 28535, June 3, 1977, as amended at 46 FR 18967, Mar. 27, 1981; 49 FR 39842, Oct. 11, 1984; 50 FR 1843, Jan. 14, 1985; 50 FR 16228, Apr. 25, 1985; 51 FR 7398, Mar. 3, 1986; 51 FR 36222, Oct. 9, 1986; 52 FR 2685, Jan. 26, 1987; 52 FR 33804, Sept. 8, 1987; 53 FR 27959, July 26, 1988; 55 FR 31828, Aug. 6, 1990; 57 FR 5053, Feb. 12, 1992; 59 FR 41241, Aug. 11, 1994; 60 FR 11028, Mar. 1, 1995; 62 FR 8373, Feb. 25, 1997; 62 FR 14304, Mar. 26, 1997]

#### § 558.348 Mibolerone.

(a) *Approvals.* To No. 000009 in § 510.600(c) of this chapter for a canned dog food, each 6½ ounce can containing 30 or 60 micrograms of mibolerone.

(b) *Conditions of use*—(1) *Amount.* 30 micrograms for animals weighing up to 25 pounds; 60 micrograms for animals weighing 26 to 50 pounds; 120 micrograms for animals weighing 51 to 100 pounds; 180 micrograms for animals weighing over 100 pounds, or German Shepherds or German Shepherd mix weighing 30 to 80 pounds.

(2) *Indications for use.* For the prevention of estrus (heat) in adult female dogs not intended primarily for breeding purposes.

(3) *Limitations.* Administer daily at least 30 days before expected initiation of heat and continue as long as desired, but for not more than 12 months. Mibolerone should not be used in bitches before first estrous period or in purebred Bedlington terriers. It is not intended for animals being used primarily for breeding purposes. Use orally in adult female dogs only. Federal law restricts this drug to use by or on the order of a licensed veterinarian.

[47 FR 6617, Feb. 16, 1982]

#### § 558.355 Monensin.

(a) *Specifications.* Monensin, as the base or the sodium salt, contains a minimum of 90 percent monensin activ-

ity derived from monensin A and a minimum of 95 percent derived from monensin A plus B. Using thin layer chromatography, the  $R_f$  value must be comparable to a reference standard (the  $R_f$  value is the distance the spots travel from the starting line divided by the distance the solvent front travels from the starting line). The loss on drying is not more than 10 percent when dried in vacuum at 60 °C for 2 hours.

(b) *Approvals.* Approvals for Type A medicated articles containing the specified levels of monensin activity granted to firms identified by sponsor numbers in § 510.600(c) of this chapter for the conditions of use indicated in paragraph (f) of this section are as follows:

(1) To 000986: 36.3 (for export only), 44, 45, or 60 grams per pound, paragraphs (f) (1)(i) and (4) of this section.

(2) To 000986: 110 grams per lb., paragraphs (f)(1) (i), (iii), (iv), (v), (ix), and (x).

(3) To 000986: 44 grams per lb. with 18 grams per lb. of roxarsone, 110 grams per lb. with 45 grams per lb. of roxarsone, paragraph (f)(1)(ii).

(4) To 000986: 45 and 60 grams per pound, as monensin sodium, paragraph (f)(2) of this section.

(5) To 000069: 45 and 60 grams per pound, as monensin sodium provided by No. 000986, paragraphs (f)(1)(xiii), (xx), and (xxi) of this section.

(6) To 000986: 45 and 60 grams per pound, as monensin sodium, paragraph (f)(5) of this section.

(7) To 000986: 20, 30, 45, 60, 80, and 90.7 grams per pound, as monensin sodium, paragraph (f)(3) of this section.

(8) To 000004: 45 and 60 grams per pound, as monensin sodium provided by No. 000986, paragraph (f)(1)(xiv) of this section.

(9) To 000004: 45 and 60 grams per pound, as monensin sodium provided by No. 000986, paragraphs (f)(1)(xv) and (xvi) of this section.

(10) To 012799: 45 and 60 grams per pound, as monensin sodium, paragraph (f)(1)(xvii) of this section.

(11) To 046573: 45 and 60 grams per pound, as monensin sodium provided by No. 000986, paragraphs (f)(1)(xviii), (xix), (xxiii), (xxiv), and (xxv) of this section.