

feed efficiency, and improved pigmentation.

(B) *Limitations.* Feed continuously as sole ration to replacement cage laying chickens until 20 weeks of age. Feed continuously as sole ration to replacement broiler breeder chickens until 16 weeks of age. Use as the sole source of organic arsenic; drug overdose or lack of water intake may result in leg weakness or paralysis. Do not feed to laying chickens or waterfowl. Withdraw 5 days before slaughter.

[50 FR 33719, Aug. 21, 1985, as amended at 50 FR 42518, Oct. 21, 1985; 51 FR 7397, Mar. 3, 1986; 51 FR 11439, Apr. 3, 1986; 51 FR 14989, Apr. 22, 1986; 51 FR 23737, July 1, 1986; 53 FR 1018, Jan. 15, 1988; 53 FR 11065, Apr. 5, 1988; 54 FR 11519, Mar. 21, 1989; 54 FR 28052, July 5, 1989; 59 FR 51498, Oct. 12, 1994; 61 FR 21076, May 9, 1996; 61 FR 24694, May 16, 1996; 64 FR 42597, Aug. 5, 1999; 65 FR 45712, July 25, 2000; 66 FR 47962, Sept. 17, 2001]

**§ 558.274 Hygromycin B.**

(a) *Approvals.* (1) Type A medicated articles: 2.4 and 8 grams per pound to

000986 in §510.600(c) of this chapter for use as in paragraph (c) of this section.

(2) 2.4 grams per pound to 043733 in §510.600(c) of this chapter for use in swine feed as in paragraph (c)(1)(ii) of this section.

(3) [Reserved]

(4) 0.6 gram per pound to 017790, 043733, and 050639 in §510.600(c) of this chapter for use in chickens as in paragraph (c)(1)(i) of this section and in swine as in paragraph (c)(1)(ii) of this section.

(5)-(6) [Reserved]

(7) 2.4 grams per pound to 017519 in §510.600(c) of this chapter for use in chickens as in paragraph (c)(1)(i) and in swine as in paragraph (c)(1)(ii) of this section.

(8) 0.6 and 1.6 grams per pound granted to 046573 in §510.600(c) of this chapter for use in chickens as in paragraph (c)(1)(i) and in swine as in paragraph (c)(1)(ii) of this section.

(b) *Related tolerances.* See §556.330 of this chapter.

(c) *Conditions of use.* (1) It may be used as follows:

| Hygromycin B in grams per ton | Combination in grams per ton                            | Indications for use  | Limitations   | Sponsor  |
|-------------------------------|---|--|---|--|
| (i) 8 to 12 .....             | .....   | Chickens: control of infestation of large roundworms ( <i>Ascaris galli</i> ), cecal worms ( <i>Heterakis gallinae</i> ), and capillary worms ( <i>Capillaria obsignata</i> ).   | Withdraw 3 days before slaughter.   | 000986, 017519, 017790, 043733, 046573, 050639 |
|                               | Bacitracin 100 .....                                    | Chickens; control of infestation of large roundworms ( <i>Ascaris galli</i> ), cecal worms ( <i>Heterakis gallinae</i> ), and capillary worms ( <i>Capillaria obsignata</i> ); treatment of chronic respiratory disease (airsac infection), blue comb (nonspecific infectious enteritis).  | As bacitracin methylene disalicylate or zinc bacitracin; withdraw 3 days before slaughter.  |  |
|                               | Bacitracin plus penicillin (100 to 200 of combination). | 1. Chickens; control of infestation of large roundworms ( <i>Ascaris galli</i> ), cecal worms ( <i>Heterakis gallinae</i> ), and capillary worms ( <i>Capillaria obsignata</i> ); treatment of chronic respiratory disease (airsac infection), blue comb (nonspecific infectious enteritis).<br>2. Chickens; control of infestation of large roundworms ( <i>Ascaris galli</i> ), cecal worms ( <i>Heterakis gallinae</i> ), and capillary worms ( <i>Capillaria obsignata</i> ); treatment of chronic respiratory disease (airsac infection), blue comb (nonspecific infectious enteritis). | Feed containing not less than 25% of penicillin plus not less than 50% of bacitracin; as procaine penicillin plus bacitracin methylene disalicylate; withdraw 3 days before slaughter.<br><br>Combination containing not less than 50% nor more than 75% of bacitracin, except that it contains not more than 125 g of penicillin; as procaine penicillin plus zinc bacitracin; withdraw 3 days before slaughter. |  |

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| Hygromycin B in grams per ton | Combination in grams per ton  | Indications for use   | Limitations   | Sponsor  |
|-------------------------------|-------------------------------|---|---|--|
| (ii) 12 .....                 |                               | 3. Chickens, control of infestation of large roundworms ( <i>Ascaris galli</i> ), cecal worms ( <i>Heterakis gallinae</i> ), and capillary worms ( <i>Capillaria obsignata</i> ); treatment of chronic respiratory disease (airsac infection), blue comb (nonspecific infectious enteritis).  | Combination containing 50% to 75% bacitracin, but not more than 125 g of penicillin, as procaine penicillin; withdraw 3 days before slaughter..   |  |
|                               | Chlortetracycline 100 to 200. | Chickens; control of infestation of large roundworms ( <i>Ascaris galli</i> ), cecal worms ( <i>Heterakis gallinae</i> ), and capillary worms ( <i>Capillaria obsignata</i> ); control of infectious synovitis caused by <i>Mycoplasma synoviae</i> susceptible to chlortetracycline.   | Do not feed to chickens producing eggs for human consumption; feed for 7 to 14 days; withdraw 3 days before slaughter.  |  |
|                               | Chlortetracycline 200 to 400. | Chickens; control of infestation of large roundworms ( <i>Ascaris galli</i> ), cecal worms ( <i>H. Gallinae</i> ), and capillary worms ( <i>Capillaria obsignata</i> ); control of chronic respiratory disease (CRD) and air sac infection caused by <i>Mycoplasma gallisepticum</i> and <i>Escherichia coli</i> susceptible to chlortetracycline.          | .....do .....   |  |
|                               | Penicillin 100 .....          | Chickens; control of infestation of large roundworms ( <i>Ascaris galli</i> ), cecal worms ( <i>Heterakis gallinae</i> ), and capillary worms ( <i>Capillaria obsignata</i> ); treatment of chronic respiratory disease (airsac infection), blue comb (nonspecific infectious enteritis).   | As procaine penicillin; withdraw 3 days before slaughter.   |  |
|                               | Tylosin 4 to 50 .....         | Chickens: Control of infestations of large roundworms ( <i>Ascaris galli</i> ), cecal worms ( <i>Heterakis gallinae</i> ), and capillary worms ( <i>Capillaria obsignata</i> ); growth promotion and feed efficiency.   | As tylosin phosphate; withdraw 3 days before slaughter.   | 000986   |
|                               | .....                         | Swine: control of infestation of large roundworms ( <i>Ascaris suis</i> ), nodular worms ( <i>Oesophagostomum dentatum</i> ), and whipworms ( <i>Trichuris suis</i> ).  | Withdraw 15 days before slaughter.  | 000986, 017519, 017790, 043733, 046573, 050639 |
|                               | Chlortetracycline 400..       | Swine; control of infestation of large roundworms ( <i>Ascaris suis</i> ), nodular worms ( <i>Oesophagostomum dentatum</i> ) and whipworms ( <i>Trichuris suis</i> ); treatment of bacterial enteritis caused by <i>E. coli</i> and <i>Salmonella choleraesuis</i> and bacterial pneumonia caused by <i>P. multocida</i> susceptible to chlortetracycline.. | Withdraw 15 d before slaughter.   |  |
|                               | Tylosin 10 to 100 .....       | Swine: Control of infestations of large roundworms ( <i>Ascaris suis</i> ), nodular worms ( <i>Oesophagostomum dentatum</i> ), and whipworms ( <i>Trichuris suis</i> ); growth promotion and feed efficiency.   | As tylosin phosphate; withdraw 15 days prior to slaughter; feed continuously as follows:<br>Animal wt.(lbs.):<br>Up to 40.....20 to 100 <sup>1</sup><br>41 to 100.....20 to 40 <sup>1</sup><br>101 to market wt.....10 to 20 <sup>1</sup> | 000986   |

<sup>1</sup> Amount of Tylosin (g/t).

(2) Hygromycin B may also be used in combination with:

(i) Amprolium in accordance with § 558.55.

(ii) Zoalene in accordance with § 558.680.

[41 FR 11000, Mar. 15, 1976]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 558.274, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

#### § 558.295 Iodinated casein.

(a) *Approvals.* See 017762 in § 510.600(c) of this chapter.

(b) *NAS/NRC status.* The use of this drug is NAS/NRC reviewed and found effective. Applications for these uses need not include efficacy data as required by § 514.111 of this chapter but may require bioequivalency or safety data.

(c) *Conditions of use*—(1) *Ducks*—(i) *Amount per ton.* 100 to 200 grams.

(ii) *Indications for use.* For increased rate of weight gain and improved feathering in growing ducks.

(2) *Dairy cows*—(i) *Amount per pound.* ½ to 1½ grams per 100 lb of body weight.

(ii) *Indications for use.* For increased milk production in dairy cows.

(iii) *Limitations.* This drug is effective for limited periods of time, and the effectiveness is limited to the declining phase of lactation. Administration must be accompanied with increased feed intake; administration may increase heat sensitivity of the animal.

[45 FR 41631, June 20, 1980]

#### § 558.300 Ivermectin.

(a) *Approvals.* (1) Type A medicated articles: 0.6 percent (2.72 grams per pound; 6 grams per kilogram) to 050604 in § 510.600(c) of this chapter, and

(2) Type B medicated feeds for ivermectin alone or with lincomycin. See § 558.4 of this chapter for maximum drug levels to 050604 in § 510.600(c) of this chapter.

(b) *Related tolerances.* See § 556.344 of this chapter.

(c) [Reserved]

(d) *Conditions of use.* It is used in swine feed as follows:

(1) *Amount per ton.* For weaned, growing-finishing swine, feed 1.8 grams of ivermectin (to provide 0.1 milligram per kilogram of body weight per day). For adult and breeding swine, feed 1.8 to 11.8 grams of ivermectin (to provide 0.1 milligram per kilogram of body weight per day). For adult and breeding swine, may be top-dressed on daily ration for individual treatment at levels of 18.2 to 1180 grams (to provide 0.1 milligram per kilogram of body weight per day).

(i) *Indications for use.* For treatment and control of gastrointestinal roundworms (*Ascaris suum*, adults and fourth-stage larvae; *Ascarops strongylina*, adults; *Hyostrongylus rubidus*, adults and fourth-stage larvae; *Oesophagostomum* spp., adults and fourth-stage larvae); kidneyworms (*Stephanurus dentatus*, adults and fourth-stage larvae); lungworms (*Metastrongylus* spp., adults); threadworms (*Strongyloides ransomi*, adults and somatic larvae, and prevention of transmission of infective larvae to piglets, via the colostrum or milk, when fed during gestation); lice (*Haematopinus suis*); and mange mites (*Sarcoptes scabiei* var. *suis*).

(ii) *Limitations.* For use in swine feed only. Feed as only feed for 7 consecutive days. Withdraw 5 days before slaughter. Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism.

(2) *Amount per ton.* 1.8 grams of ivermectin (to provide 0.1 milligram per kilogram of body weight per day) with 20 grams of lincomycin.

(i) *Indications for use.* For treatment and control of gastrointestinal roundworms (*Ascaris suum*, adults and fourth-stage larvae; *Ascarops strongylina*, adults; *Hyostrongylus rubidus*, adults and fourth-stage larvae; *Oesophagostomum* spp., adults and fourth-stage larvae), kidneyworms (*Stephanurus dentatus*, adults and fourth-stage larvae), lungworms (*Metastrongylus* spp., adults), lice (*Haematopinus suis*), and mange mites (*Sarcoptes scabiei* var. *suis*). For increased rate of weight gain.

(ii) *Limitations.* For weaned, growing-finishing swine. Feed as only feed for 7