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and followed in 10 minutes by an intravenous administration of sodium pentobarbital at the rate of 3 milligrams per pound of body weight, or

(b) Intravenously at the rate of 1 cubic centimeter per 25 to 60 pounds of body weight in conjunction with atropine sulfate administered at the rate of 0.02 milligram per pound of body weight and followed within 15 seconds by an intravenous administration of sodium pentobarbital at the rate of 3 milligrams per pound of body weight.

(3) For use only by or on the order of a licensed veterinarian.

[40 FR 13858, Mar. 27, 1975, as amended at 64 FR 15684, Apr. 1, 1999]

§ 522.812 Enrofloxacin solution.

(a) *Specifications.* Each milliliter of sterile solution contains either 22.7 milligrams of enrofloxacin when intended for use in dogs or 100 milligrams of enrofloxacin when intended for use in cattle.

(b) *Sponsor.* See No. 000859 in § 510.600(c) of this chapter.

(c) *Related tolerance.* See § 556.228 of this chapter.

(d) *Conditions of use—(1) Dogs—(i) Amount.* 2.5 milligrams per kilogram (1.13 milligrams per pound) of body weight as an initial dose only.

(ii) *Indications for use.* Dogs for management of diseases associated with bacteria susceptible to enrofloxacin.

(iii) *Limitations.* As a single, intramuscular, initial dose followed by use of tablets twice daily for 2 to 3 days beyond cessation of clinical signs to a maximum of 10 days. Federal law restricts this drug to use by or on the order of a licensed veterinarian.

(2) *Cattle—(i) Amount.* Single-dose therapy: 7.5 to 12.5 milligrams enrofloxacin per kilogram of body weight (3.4 to 5.7 milliliters per 100 pounds). Multiple-day therapy: 2.5 to 5.0 milligrams per kilogram of body weight (1.1 to 2.3 milliliters per 100 pounds) administered once daily for 3 to 5 days.

(ii) *Indications for use.* For the treatment of bovine respiratory disease (BRD) associated with *Pasteurella haemolytica*, *P. multocida*, and *Haemophilus somnus*.

(iii) *Limitations.* For subcutaneous use in cattle only. Do not inject more

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than 20 milliliters at each site. Do not slaughter within 28 days of last treatment. Do not use in cattle intended for dairy production. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal. The effect of enrofloxacin on bovine reproductive performance, pregnancy, and lactation have not been determined. Federal law restricts this drug to use by or on the order of a licensed veterinarian. Federal law prohibits the extra-label use of this drug in food-producing animals.

[55 FR 26683, June 29, 1990, as amended at 62 FR 38907, July 21, 1997; 63 FR 49003, Sept. 14, 1998]

§ 522.820 Erythromycin injection.

(a) *Sponsor.* See 061623 in § 510.600(c) of this chapter.

(b) *NAS/NRC status.* The conditions of use have been reviewed by NAS/NRC and found effective.

(c) *Dogs and cats—(1) Specifications.* Each milliliter of polyethylene glycol vehicle contains 100 milligrams of erythromycin base with 2 percent butyl aminobenzoate.

(2) *Conditions of use—(i) Amount.* 3 to 5 milligrams per pound of body weight, intramuscularly, two to three times daily, for up to 5 days.

(ii) *Indications for use—(A) Dogs.* For the treatment of bacterial pneumonia, upper respiratory infections (tonsillitis, bronchitis, tracheitis, pharyngitis, pleurisy), endometritis and metritis, and bacterial wound infections caused by *Staphylococcus* spp., *Streptococcus* spp., and *Corynebacterium* spp., sensitive to erythromycin.

(B) *Cats.* For the treatment of bacterial pneumonia, upper respiratory infections (rhinitis, bronchitis), secondary infections associated with panleukopenia, and bacterial wound infections caused by *Staphylococcus* spp. and *Streptococcus* spp., susceptible to erythromycin.

(iii) *Limitations.* Administer by deep intramuscular injection into the heavy muscles of the neck and limbs. Do not administer intravenously or intraperitoneally. Avoid subcutaneous use. Do not administer from moist or

wet syringe. As with all antibiotics, appropriate in vitro culturing and susceptibility testing of samples taken before treatment should be conducted. Do not administer in conjunction with penicillin. As with all antibiotics, excessive continuous use may result in an overgrowth of nonsusceptible organisms. Federal law restricts this drug to use by or on the order of a licensed veterinarian.

(d) *Cattle*.—(1) *Specifications*. Each milliliter of nonaqueous, buffered, alcohol base sterile solution contains 200 milligrams of erythromycin base.

(2) *Related tolerances*. See § 556.230 of this chapter.

(3) *Conditions of use*—(i) *Amount*. 4 milligrams of erythromycin base per pound of body weight once daily for up to 5 days.

(ii) *Indications for use*. For the treatment of bovine respiratory disease (shipping fever complex and bacterial pneumonia) associated with *Pasteurella multocida* susceptible to erythromycin.

(iii) *Limitations*. For intramuscular use only. Do not use in female dairy cattle over 20 months of age. Do not slaughter treated animals within 6 days of last treatment. To avoid excess trim, do not slaughter within 21 days of last injection.

[58 FR 43795, Aug. 18, 1993, as amended at 66 FR 14073, Mar. 9, 2001; 68 FR 4915, Jan. 31, 2003]

§ 522.840 Estradiol.

(a) *Specifications*. Each silicone rubber implant contains 25.7 or 43.9 milligrams of estradiol.

(b) *Sponsor*. See No. 021641 in § 510.600(c) of this chapter.

(c) *Conditions of use*. It is used for implantation in steers and heifers as follows:

(1) *Amount*. Insert one 25.7-milligram implant every 200 days; insert one 43.9-milligram implant every 400 days.

(2) *Indications for use*. For increased rate of weight gain in suckling and pastured growing steers; for improved feed efficiency and increased rate of weight gain in confined steers and heifers.

(3) *Limitations*. For subcutaneous ear implantation in steers and heifers only. A second implant may be used if desired. No additional effectiveness may

be expected from reimplanting in less than 200 days for the 25.7-milligram implant or 400 days for the 43.9 milligram implant. Increased sexual activity (bulling, riding, and excitability) has been reported in implanted animals.

[51 FR 22276, June 19, 1986, as amended at 57 FR 41861, Sept. 14, 1992; 66 FR 56035, Nov. 6, 2001]

§ 522.842 Estradiol benzoate and testosterone propionate in combination.

(a) [Reserved]

(b) *Sponsors*. See 000856 in § 510.600(c) of this chapter for use as in paragraph (d)(1)(i), (d)(2), and (d)(3) of this section. See 021641 in § 510.600(c) of this chapter for use as in paragraph (d) of this section.

(c) *Related tolerances*. See §§ 556.240 and 556.710 of this chapter.

(d) *Conditions of use—Heifers*. For implantation as follows:

(1) *Amount*. (i) 20 milligrams of estradiol benzoate and 200 milligrams of testosterone propionate per dose.

(ii) 20 milligrams estradiol benzoate and 200 milligrams testosterone propionate in eight pellets with 29 milligrams tylosin tartrate as a local antibacterial in one pellet, per implant dose.

(2) *Indications for use*. Growth promotion and improved feed efficiency.

(3) *Limitations*. For heifers weighing 400 pounds or more; for subcutaneous ear implantation, one dose per animal; not for use in dairy or beef replacement heifers.

[40 FR 13858, Mar. 27, 1975, as amended at 49 FR 29778, July 24, 1984; 61 FR 5506, Feb. 13, 1996; 64 FR 48294, Sept. 3, 1999]

§ 522.850 Estradiol valerate and norgestomet in combination.

(a) *Specifications*. The product is a two-component drug consisting of the following:

(1) An implant containing 6.0 milligrams of norgestomet.

(2) An injectable solution (sesame oil) containing 3.0 milligrams of norgestomet and 5.0 milligrams of estradiol valerate per 2 milliliters.

(b) *Sponsor*. See 050604 in § 510.600(c) of this chapter.

(c) *Conditions of use*—(1) *Amount*. One implant and 2 milliliters of injection at time of implantation.