Food and Drug Administration, HHS

use prophylactically in cattle during periods of stress for reducing losses due to sulfonamide sensitive disease conditions.

(ii) Limitations. Administer 100 milligrams per pound of body weight; do not treat within 16 days of slaughter; as sole source of sulfonamide; not for use in lactating dairy cows; Federal law restricts this drug to use by or on the order of a licensed veterinarian.

§520.2260 Sulfamethazine oral dosage forms.

§520.2260a Sulfamethazine oblets and boluses.

(a) (1) Sponsor. See No. 000859 in §510.600(c) of this chapter for use of 2.5-, 5-, or 15-gram sulfamethazine oblet.

(b) (1) Sponsor. See No. 000859 in §510.600(c) of this chapter for use of 5-gram sulfamethazine bolus.

(2) Related tolerances in edible products. See §556.670 of this chapter.

(3) Conditions of use—(i) Amount. Administer as a single dose 100 milligrams of sulfamethazine per pound of body weight the first day and 50 milligrams per pound of body weight on each following day.

(ii) Indications for use. For treatment of diseases caused by organisms susceptible to sulfamethazine.

(A) Beef cattle and nonlactating dairy cattle. Treatment of bacterial pneumonia and bovine respiratory disease complex (shipping fever complex) (Pasturella spp.), colibacillosis (bacterial scours) (Escherichia coli), necrotic pododermatitis (foot rot) (Fusobacterium necrophorum), calf diphtheria (Fusobacterium necrophorum), acute mastitis (Streptococcus spp.), acute metritis (Streptococcus spp.), coccidiosis (Eimeria bovis and Eimeria zurnii).

(B) Horses. Treatment of bacterial pneumonia (secondary infections associated with Pasteurella spp.), strangles (Streptococcus equi), and bacterial enteritis (Escherichia coli).

(iii) Limitations. Administer daily until animal’s temperature and appearance are normal. If symptoms persist after using for 2 or 3 days consult a veterinarian. Fluid intake must be adequate. Treatment should continue 24 to 48 hours beyond the remission of disease symptoms, but not to exceed 5 consecutive days. Follow dosages carefully. Not for use in lactating dairy animals. Do not treat cattle within 10 days of slaughter. Not to be used in horses intended for food.

(4) NAS/NRC status. The conditions of use specified in this section have been reviewed by NAS/NRC and are found effective. Applications for these uses need not include effectiveness data as specified by §514.111 of this chapter, but may require bioequivalency and safety information.

(b)(1) Sponsor. See No. 053501 in §510.600(c) of this chapter for use of 5-gram sulfamethazine bolus.

(2) Related tolerances in edible products. See §556.670 of this chapter.

(3) Conditions of use—(i) Amount. Administer 10 grams (2 boluses) of sulfamethazine per 100 pounds of body weight the first day, then 5 grams (1 bolus) of sulfamethazine per 100 pounds of body weight daily for up to 4 additional consecutive days.

(ii) Indications for use. Ruminating beef and dairy calves. For treatment of the following diseases caused by organisms susceptible to sulfamethazine: bacterial scours (colibacillosis) caused by E. coli; necrotic pododermatitis (foot rot) and calf diphtheria caused by F. necrophorum; bacterial pneumonia associated with Pasteurella spp.; and coccidiosis caused by E. bovis and E. zurnii.

(iii) Limitations. Do not administer for more than 5 consecutive days. Do not treat calves within 11 days of slaughter. Do not use in calves to be slaughtered under 1 month of age or in calves being fed an all milk diet. Do not use in female dairy cattle 20 months of age or older; such use may cause drug residues in milk. Administer with adequate supervision. Follows recommended dosages carefully. Fluid intake must be adequate. If symptoms persist after 2 or 3 days, consult a veterinarian.


§520.2260b Sulfamethazine sustained-release boluses.

(a) (1) Sponsor. See No. 000859 in §510.600(c) of this chapter for use of a 22.5-gram sulfamethazine prolonged-release bolus.

(2) Conditions of use—(i) Amount. Depending on the duration of therapeutic...
levels desired, administer boluses as a single dose as follows: 3½ days—1 bolus (22.5 grams) per 200 pounds of body weight; 5 days—1 bolus per 100 pounds of body weight.

(ii) Indications for use. Beef and nonlactating cattle for sustained treatment of shipping fever pneumonia caused or complicated by Pasteurella multocida; as an aid in the treatment of foot rot, mastitis, pneumonia, metritis, bacterial enteritis, calf diphtheria, and septicemia when caused or complicated by bacteria susceptible to sulfamethazine.

(iii) Limitations. Cattle that are acutely ill should be treated parenterally with a suitable antibacterial product to obtain immediate therapeutic blood levels; do not slaughter animals for food within 16 days of treatment; do not use in lactating dairy cattle; Federal law restricts this drug to use by or on the order of a licensed veterinarian.

(b)(1) Sponsor. See No. 053501 in §510.600(c) of this chapter for use of a 27-gram sulfamethazine sustained-release bolus.

(2) Conditions of use—(i) Amount. 27 grams (1 bolus) for each 150 pounds of body weight as a single dose.

(ii) Indications for use. For nonlactating cattle for the treatment of infections caused by organisms sensitive to sulfamethazine such as hemorrhagic septicemia (shipping fever complex), bacterial pneumonia, foot rot, and calf diphtheria and as an aid in the control of bacterial diseases usually associated with shipping and handling of cattle.

(iii) Limitations. If no response within 2 to 3 days, reevaluate therapy; do not crush tablets; treated animals must not be slaughtered for food within 28 days after the latest treatment; Federal law restricts this drug to use by or on the order of a licensed veterinarian.

(c)(1) Sponsor. See No. 050604 in §510.600(c) of this chapter for use of a 32.1-gram sustained-release bolus.

(2) Conditions of use—(i) Amount. 32.1 grams (1 bolus) per 200 pounds of body weight. 1

(i) Indications for use. For beef and nonlactating dairy cattle for the treatment of diseases caused by sulfamethazine-sensitive organisms as follows: bacterial pneumonia and bovine respiratory disease complex (shipping fever complex) caused by Pasteurella spp., colibacillosis (bacterial scours) caused by E. coli, necrotic pododermatitis (foot rot) and calf diphtheria caused by Fusobacterium necrophorum, and acute mastitis and acute metritis caused by Streptococcus spp. 1

(ii) Limitations. After 72 hours, all animals should be reexamined for persistence of observable disease signs. If signs are present, consult a veterinarian. It is strongly recommended that a second dose be given to provide for an additional 72 hours of therapy, particularly in more severe cases. The dosage schedule should be used at each 72-hour interval. Animals should not receive more than 2 doses because of the possibility of incurring residue violations. This drug, like all sulfonamides, may cause toxic reactions and irreparable injury unless administered with adequate and continuous supervision; follow dosages carefully. Fluid intake must be adequate at all times throughout the 3-day therapy. Do not use in lactating dairy cattle. Do not treat animals within 12 days of slaughter.

(d)(1) Sponsor. See 000859 in §510.600(c) of this chapter for use of a 22.5-gram sulfamethazine sustained release bolus.

(2) Conditions of use—(i) Amount. Administer 1 bolus (22.5 grams) per 200 pounds of body weight, as a single dose.

(ii) Indications for use. Beef and nonlactating dairy cattle for the prolonged treatment of the following diseases when caused by one or more of the listed pathogenic organisms sensitive to sulfamethazine: bovine respiratory disease complex (shipping fever complex) (Pasteurella spp.), bacterial pneumonia (Pasteurella spp.), necrotic pododermatitis (foot rot) (Fusobacterium necrophorum), colibacillosis (bacterial scours) (Escherichia coli), calf diphtheria (Fusobacterium necrophorum), acute mastitis and acute metritis caused by Streptococcus spp. 1

1 These conditions are NAS/NRC reviewed and found effective. Applications for these uses need not include effectiveness data as specified by §514.111 of this chapter, but may require bioequivalency and safety information.
mastitis (Streptococcus spp.) and acute metritis (Streptococcus spp.).

(iii) Limitations. Cattle that are acutely ill should be treated by injection with a suitable antibacterial product to obtain immediate therapeutic blood levels; do not slaughter animals for food within 16 days of treatment; do not use in lactating dairy cattle; if treated animals do not respond within 2 to 3 days, consult a veterinarian.

(e)(1) Sponsor. See No. 050604 in §510.600(c) of this chapter for use of an 8.02-gram sulfamethazine sustained-release bolus.

(2) Conditions of use—(i) Amount. Administer 2 boluses (8.02 grams per bolus) per 100 pounds of body weight, as a single dose.

(ii) Indications for use. Administer orally to ruminating calves for the prolonged treatment of the following diseases when caused by one or more of the listed pathogenic organisms sensitive to sulfamethazine: bacterial pneumonia (Pasteurella spp.), colibacillosis (bacterial scours) (E. coli), and calf diphtheria (Fusobacterium necrophorum).

(iii) Limitations. For use in ruminating replacement calves only; 72 hours after dosing all animals should be reexamined for persistence of disease signs; if signs are present, consult a veterinarian; do not slaughter animals for food for at least 8 days after the last dose; do not use in lactating dairy cattle; do not administer more than two consecutive doses.

(g) Related tolerances. See §556.670 of this chapter.

(h)(1) Sponsor. See No. 054273 in §510.600(c) of this chapter for use of an 8.25-gram sulfamethazine sustained-release bolus.

(2) Conditions of use—(i) Amount. Administer at the rate of 1 bolus (8.25 grams per bolus) per 50 pounds of body weight, as a single dose. If signs of disease are significantly reduced, it is recommended that a second dose be given to provide an additional 72 hours of therapy.

(ii) Indications for use. Administer orally to ruminating beef and dairy calves for treatment of the following diseases when caused by one or more of the listed pathogenic organisms susceptible to sulfamethazine: bacterial pneumonia associated with Pasteurella spp.; colibacillosis (bacterial scours) caused by Escherichia coli; coccidiosis caused by Eimeria bovis and E. zurnii; and calf diphtheria caused by Fusobacterium necrophorum.

(iii) Limitations. Do not use in calves to be slaughtered under 1 month of age or calves being fed an all milk diet. Do not use in female dairy cattle 20 months of age or older. If symptoms persist after 3 days, consult a veterinarian. Do not administer more than 2 consecutive doses. Do not slaughter
animals for food for at least 8 days after the last dose. Do not crush bolus.

§ 520.2260c Sulfamethazine sustained-release tablets.

(a) Sponsor. See No. 053501 in § 510.600(c) of this chapter for use of an 8-gram sulfamethazine sustained-release tablet.

(b) Conditions of use—(1) Amount. 8 grams (1 tablet) per 45 pounds of body weight as a single dose.

(2) Indications for use. In calves for sustained treatment of pneumonia caused by Pasteurella spp., colibacillosis (bacterial scours) caused by Escherichia coli, and calf diphtheria caused by Fusobacterium necrophorum.

(3) Limitations. If there is no response within 2 to 3 days, reevaluate therapy. Do not crush tablets. Treated animals must not be slaughtered for food within 18 days after the latest treatment. Federal law restricts this drug to use by or on the order of a licensed veterinarian.


§ 520.2260c Sulfamethazine sustained-release tablets.

(a) Sponsor. See No. 053501 in § 510.600(c) of this chapter for use of an 8-gram sulfamethazine sustained-release tablet.

(b) Conditions of use—(1) Amount. 8 grams (1 tablet) per 45 pounds of body weight as a single dose.

(2) Indications for use. In calves for sustained treatment of pneumonia caused by Pasteurella spp., colibacillosis (bacterial scours) caused by Escherichia coli, and calf diphtheria caused by Fusobacterium necrophorum.

(3) Limitations. If there is no response within 2 to 3 days, reevaluate therapy. Do not crush tablets. Treated animals must not be slaughtered for food within 18 days after the latest treatment. Federal law restricts this drug to use by or on the order of a licensed veterinarian.


§ 520.2266 Sulfamethazine sodium oral dosage forms.

§ 520.2266a Sulfamethazine sodium drinking water solution.

(a) Sponsors. See Nos. 017800 and 010042 in § 510.600(c) of this chapter for use of a 12.5-percent sulfamethazine sodium solution.

(b) Related tolerances in edible products. See § 556.670 of this chapter.

(c) Conditions of use—(1) Amount. Administer in drinking water to provide: Cattle and swine 112.5 milligrams of sulfamethazine sodium per pound of body weight per day on the first day and 56.25 milligrams per pound of body weight on subsequent days; Chickens, 61 to 89 milligrams of sulfamethazine sodium per pound of body weight per day; and turkeys 53 to 130 milligrams of sulfamethazine sodium per pound of body weight per day, depending upon the dosage, age, and class of chickens or turkeys, ambient temperature, and other factors.

(2) Indications for use. For treatment and control of diseases caused by organisms sensitive to sulfamethazine.

(i) Beef and nonlactating dairy cattle. Treatment of bacterial pneumonia and bovine respiratory disease complex (shipping fever complex) (Pasteurella spp.), colibacillosis (bacterial scours) (Escherichia coli), necrotic pododermatitis (foot rot) (Fusobacterium necrophorum), calf diphtheria (Fusobacterium necrophorum), acute mastitis (Streptococcus spp.), and acute metritis (Streptococcus spp.).

(ii) Swine. Treatment of porcine colibacillosis (bacterial scours) (Escherichia coli), and bacterial pneumonia (Pasteurella spp.).

(iii) Chickens and turkeys. In chickens for control of infectious coryza (Haemophilus gallinarum), coccidiosis (Eimeria tenella, Eimeria necatrix), acute fowl cholera (Pasteurella multocida), and pullorum disease (Salmonella pullorum). In turkeys for control of coccidiosis (Eimeria meleagritis, Eimeria adenoides). Medicate as follows: Infectious coryza in chickens, medicate for 2 consecutive days; acute fowl cholera and pullorum disease, in chickens, medicate for 6 consecutive days; coccidiosis, in chickens and turkeys, medicate as in paragraph (c) of this section, then reduce amount of medication to one-half for 4 additional days.

(3) Limitations. Add the required dose to that amount of water that will be consumed in 1 day. Consumption should be carefully checked. Have only medicated water available during treatment. Withdraw medication from cattle, chickens, and turkeys 10 days prior to slaughter for food. Withdraw medication from swine 15 days before slaughter for food. Not for use in lactating dairy cattle. Do not medicate chickens or turkeys producing eggs for human consumption. Treatment of all diseases should be instituted early. Treatment should continue 24 to 48 hours beyond the remission of disease symptoms, but not to exceed a total of 5 consecutive days in cattle or swine. Medicated cattle, swine, chickens, and turkeys must actually consume enough