Food and Drug Administration, HHS

PART 529—CERTAIN OTHER DOSAGE FORM NEW ANIMAL DRUGS

§ 529.50 Amikacin sulfate intrauterine solution.

(a) Specifications. Each milliliter of sterile aqueous solution contains 250 milligrams of amikacin (as the sulfate).
(b) Sponsor. See No. 000856 and 059130 in §510.600(c) of this chapter.
(c) Conditions of use—(1) Amount. Two grams (8 milliliters) diluted with 200 milliliters of sterile physiological saline per day for 3 consecutive days.
(2) Indications for use. For treating genital tract infections (endometritis, metritis, and pyometra) in mares when caused by susceptible organisms including E. coli, Pseudomonas spp., and Klebsiella spp.
(3) Limitations. Prior to administration, remove any unattached placental membranes, any excess uterine fluid or debris, and carefully clean external genitalia. Use a clean, sterile inseminating pipette for administrating solutions and suspensions. Treatment may be repeated in 48 to 72 hours.

§ 529.360 Cephalothin discs.

(a) Specifications. Cephalothin discs, comply with the requirements of §460.1 of this chapter.
(b) Sponsor. See No. 000086 in §510.600(c) of this chapter.

§ 529.400 Chlorhexidine tablets and suspension.

(a) Specifications. Each tablet and each 28-milliliter syringe of suspension contain 1 gram of chlorhexidine dihydrochloride.1
(b) Sponsor. See No. 000086 in §510.600(c) of this chapter.
(c) Conditions of use—(1) Amount. Place 1 or 2 tablets deep in each uterine horn; or infuse a solution of 1 tablet dissolved in an appropriate amount of clean boiled water; or infuse one syringe of suspension into the uterus.1
(2) Indications for use. For prevention or treatment of metritis and vaginitis in cows and mares when caused by pathogens sensitive to chlorhexidine dihydrochloride.1
(3) Limitations. Prior to administration, remove any unattached placental membranes, any excess uterine fluid or debris, and carefully clean external genitalia. Use a clean, sterile inseminating pipette for administrating solutions and suspensions. Treatment may be repeated in 48 to 72 hours.1

§ 529.1003 Flurogestone acetate-impregnated vaginal sponge.

(a) Specifications. Each vaginal sponge contains 20 milligrams of flurogestone acetate.
(b) Sponsor. See No. 000014 in §510.600(c) of this chapter.
(c) Conditions of use—(1) Indications for use. For synchronizing estrus/ovulation in cycling adult ewes during their normal breeding season.
(2) Limitations. Using applicator provided, insert sponge into ewe's vagina 13 days before desired start of breeding. For intravaginal use in sheep only. Do not use in young ewes that have not

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1These conditions are NAS/NRC reviewed and deemed effective. Applications for these uses need not include effectiveness data as specified by §514.111 of this chapter, but may require bioequivalence and safety information.
had lambs. Use plastic or rubber gloves when handling large numbers of sponges to minimize exposure to drug. Do not leave sponge in the vagina for more than 21 days. Ewes must not be slaughtered for food within 30 days of sponge removal.

[49 FR 45420, Nov. 16, 1984]

§ 529.1030 Formalin solution.

(a) Specifications. Formalin solution is an aqueous solution containing approximately 37 percent by weight of formaldehyde gas, U.S.P.

(b) Sponsor. Approval to firms identified in §510.600(c) of this chapter for use as indicated:

(1) No. 050378 for use as in paragraph (c) of this section.

(2) Nos. 049968 and 051212 for use as in paragraphs (c)(1)(i), (c)(1)(ii), (c)(2)(i), (c)(2)(ii), and (c)(3) of this section.

(c) Conditions of use—(1) Indications for use. The drug is added to the environmental water as follows:


(ii) For control of fungi of the family Saprolegniaceae on salmon, trout, and esocid eggs.

(iii) For control of external protozoan parasites Bodo spp., Epistylis spp., and Zoothamnium spp. on penaeid shrimp.

(2) Amount. The drug concentrations required are as follows:

(i) For control of external parasites on fish:

<table>
<thead>
<tr>
<th>Fish</th>
<th>Concentration of formalin (microliters per liter)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tanks and raceways (for up to 1 hour)</td>
</tr>
<tr>
<td>Salmon and trout:</td>
<td></td>
</tr>
<tr>
<td>Above 50 °F</td>
<td>Up to 170</td>
</tr>
<tr>
<td>Below 50 °F</td>
<td>Up to 250</td>
</tr>
<tr>
<td>Catfish, largemouth bass, and bluegill.</td>
<td>Up to 250</td>
</tr>
</tbody>
</table>

1 Use the lower concentrations when pond is heavily loaded with fish or phytoplankton.

(ii) For control of fungi of the Saprolegniaceae on salmon, trout, and esocid eggs: Apply in constant flow water supply of incubating facilities for 15 minutes. Concentration of formalin used is 1,000 to 2,000 microliters per liter.

(iii) For control of external protozoan parasites on shrimp:

<table>
<thead>
<tr>
<th>Shrimp</th>
<th>Concentration of formalin (microliters per liter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penaeid Shrimp</td>
<td>50 to 100</td>
</tr>
</tbody>
</table>

1 Treat for up to 4 hours daily. Treatment may be repeated daily until parasite control is achieved. Use the lower concentration when the tanks and raceways are heavily loaded.

2 Single treatment. Treatment may be repeated in 5 to 10 days if needed.

(3) Limitations. Fish tanks and raceways may be treated daily until parasite control is achieved. Pond treatment may be repeated in 5 to 10 days if needed. However, pond treatments for Ichthyophthirius should be made at 2-day intervals until control is achieved. Egg tanks may be treated as often as necessary to prevent growth of fungi. Do not use formalin which has been subjected to temperatures below 40 °F, or allowed to freeze. Do not treat ponds containing striped bass. Treatments in tanks should never exceed 1 hour even if fish show no signs of stress. Do not apply formalin to ponds with water warmer than 27 °C (80 °F), when a heavy bloom of phytoplankton is present, or when the concentration of dissolved oxygen is less than 5 milligrams per liter.


§ 529.1044 Gentamicin sulfate in certain other dosage forms.

§ 529.1044a Gentamicin sulfate intrauterine solution.

(a) Specifications. Each milliliter of the drug contains 50 or 100 milligrams of gentamicin (as the sulfate) in sterile aqueous solution.

(b) Sponsor. See Nos. 000010, 000061, 000856, 000864, 057561, and 059130 in §510.600(c) of this chapter.

(c) Conditions of use. (1) The drug is indicated for use for control of bacterial infections of the uterus in horses (metritis) and as an aid in improving
conception in mares with uterine infections caused by bacteria sensitive to gentamicin.

(2) It is administered at a dosage level of 2 to 2.5 grams per day for 3 to 5 days during estrus, each dose being diluted with 200 to 500 milliliters of sterile physiological saline before aseptic infusion into the uterus.

(3) Federal law restricts this drug to use by or on the order of a licensed veterinarian.

(4) Not for use in horses intended for food.


§ 529.1044b Gentamicin sulfate solution.

(a) Specifications. Each milliliter of solution contains gentamicin sulfate equivalent to 50 milligrams of gentamicin base.

(b) Sponsor. See Nos. 000061 and 051259 in § 510.600(c) of this chapter.

(c) Conditions of use. (1) The drug is recommended as an aid in the reduction or elimination of the following microorganisms from turkey-hatching eggs: Arizona hinshawii (paracolon), Salmonella st. paul, and Mycoplasma meleagridis.

(2) The drug is added to clean water to provide a dip solution with a gentamicin concentration of 250 to 1,000 parts per million. A concentration of 500 parts per million is recommended. Clean eggs should be held submerged in the gentamicin solution under a vacuum of about 27.5 to 38 centimeters of mercury for 5 minutes followed by additional soaking in gentamicin solution for approximately 10 minutes at atmospheric pressure. Eggs can also be treated by warming them for 3 to 6 hours at approximately 100° F., then immediately submerging them in gentamicin solution maintained at about 40° F., keeping the eggs submerged for 10 to 15 minutes.

(3) For use in the dipping treatment of turkey-hatching eggs only. Eggs which have been dipped in the drug shall not be used for food.


§ 529.1115 Halothane.

(a) Specifications. The drug is a colorless, odorless, nonflammable, nonexplosive, heavy liquid containing 0.01 percent thymol as a preservative.

(b) Sponsor. See 000856 and 012164 in § 510.600(c) of this chapter.

(c) Conditions of use—(1) Amount. Two to 5 percent of inhaled atmosphere for induction of anesthesia; 0.5 to 2 percent for maintenance of anesthesia.

(2) Indications for use. For nonfood animals for the induction and maintenance of anesthesia.

(3) Limitations. Administered by inhalation. May be administered with either oxygen or a mixture of oxygen and nitrous oxide. Place drug vaporizer between the gas supply and breathing bag to prevent overdosage. Not recommended for obstetrical anesthesia except when uterine relaxation is required. Do not use in pregnant animals; information on possible adverse effects on fetal development is not available. Operating rooms should have adequate ventilation to prevent accumulation of anesthetic gases. Not for use in animals intended for food. Federal law restricts this drug to use by or on the order of a licensed veterinarian.


§ 529.1186 Isoflurane.

(a) Specifications. The drug is a clear, colorless, stable liquid containing no additives or chemical stabilizers. It is nonflammable and nonexplosive.

(b) Sponsors. See Nos. 000074, 010019, 012164, and 059258 in § 510.600(c) of this chapter.

(c) Conditions of use—(1) Amount—(i) Horses: For induction of surgical anesthesia: 3 to 5 percent isoflurane (with

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1These conditions have been reviewed by FDA and found effective. NADA’s for similar products for these conditions of use need not include effectiveness data as specified by §514.111 of this chapter, but may require bioequivalency and safety information.
§ 529.1526 Nifurpinol capsules.

(a) Specifications. Each capsule contains 3.8 or 7.6 milligrams of nifurpinol.

(b) Sponsor. See No. 000074 in §510.600(c) of this chapter.

(c) Conditions of use. (1) The drug is used in treating aquarium fish for the control of columnaris disease caused by Chondrococcus columnaris susceptible to nifurpinol.

(2) Use one 3.8 milligram nifurpinol capsule for each 10 gallons of aquarium water. Empty the contents of the capsule directly into the water and stir briefly. Treat for at least 1 hour. If activated charcoal or carbon filtration is being used, disconnect during treatment, but maintain adequate aeration. Resume water filtration after 1 hour treatment. Usually a single treatment is sufficient. For aquariums with charcoal filters, nifurpinol can be used once each 24 hours up to 3 consecutive days, discontinuing filtration during treatment. If aquarium does not have charcoal filter, do not retreat within 5 days.

(3) Do not use in salt water aquariums.

(4) Do not use while egg bearers or live bearers are reproducing.


§ 529.2090 Salicylic acid.

(a) Specifications. (1) Each dose contains 0.55 grain of salicylic acid in a gum arabic and dextrin vehicle.

(2) Each dose is incorporated upon a device (teat dilator) suitable for insertion into and subsequent removal from the teat canal.

(b) Sponsor. See No. 045087 in §510.600(c) of this chapter.

(c) Conditions of use. (1) The drug is used for the removal of scar tissue in the teat canal of milk-producing cows.

(2) The labeling bears directions to the user to:

(i) Treat lactating cows initially by inserting dosage and removal of the device;

(ii) Insert second dose and permit device to remain in canal until the next milking; and

(iii) Insert one dose following each milking for not more than 2 days.

(3) Milk that has been drawn from animals within 48 hours of such treatment may not be used for food.


§ 529.2464 Ticarcillin powder.

(a) Specifications. Each vial contains ticarcillin disodium equivalent to 6 grams of ticarcillin to be reconstituted with 25 milliliters of sterile water for injection or sterile physiological saline.

(b) Sponsor. See No. 000069 in §510.600(c) of this chapter.

(c) Conditions of use—(1) Amount. 6 grams per day, intrauterine, for 3 consecutive days during estrus.


(3) Limitations. For intrauterine use in horses only. Infuse aseptically. Not for use in horses raised for food production. Federal law restricts this drug to
§ 529.2503 Tricaine methanesulfonate.

(a) Chemical name. Ethyl-m-amino-benzoate methanesulfonate.

(b) Sponsor. See Nos. 050378 and 051212 in §510.600(c) of this chapter.

(c) Conditions of use. (1) It is used for the temporary immobilization of fish, amphibians, and other aquatic cold-blooded animals (poikilotherms) as an aid in handling during manual spawning (fish stripping), weighing, measuring, marking, surgical operations, transport, photography, and research.

(2) It is used as follows:

(i) For fish the drug is added to ambient water at a concentration of from 15 to 330 milligrams per liter depending upon the degree of anesthetization or sedation desired, the species and size of the fish, and the temperature and softness of the water. Preliminary tests of solutions must be made with small numbers of fish to determine the desired rates of sedation or anesthesia and the appropriate exposure times for the specific lots of fish under prevailing conditions.

(ii) For amphibians and other aquatic coldblooded animals, the drug is added to ambient water in concentrations of from 1:1000 to 1:20,000 depending upon species and stage of development.

(iii) Do not use within 21 days of harvesting fish for food. Use in fish intended for food should be restricted to Ictaluridae, Salmonidae, Esocidae, and Percidae, and water temperature should exceed 10°C (50°F.). In other fish and in cold-blooded animals, the drug should be limited to hatchery or laboratory use.