Your Livelihood, Our Responsibility.

At Merck Animal Health, what drives you drives us. We are dedicated to improving the health and well-being of animals through innovative, science-based solutions. Simply put, the science of healthier animals is our way of life.

This is your livelihood, and we take that very seriously. Our responsibility drives us to deliver advanced research, product innovations and superior service to you.

Our Dairy Cattle Health Portfolio offers a complete line of health products for every stage of production. Along with world-class products and technical expertise, we offer Dairy Care365, a training program that supports dairy producers and managers with learning resources to train employees in the basics of good dairy stockmanship.

We’re with you every step of the way. Tell us how we can help. For more information on Merck Animal Health products and Dairy Care365, contact your Merck Animal Health representative today.

Your Values Are Our Values.

Dairy Care365 is an innovative program designed to specifically train, equip and support dairy producers and veterinarians like you as you continue to provide the best possible care for your dairy animals 365 days a year.

Health Improvement Programs
Keeping your dairy cattle healthy and productive is essential to your success. Depend on Merck Animal Health to support you with programs including:

- Health protocols, such as vaccine management, pinkeye prevention and strategic deworming
- Disease surveillance and diagnostics testing
- Calf lung ultrasounding
- Responsible product use and residue prevention
- Fecal egg count reduction testing
- Dairy sanitation audits
- Product research and support
- Hispanic resources

Employee Training
The Dairy Care365 Training Series includes best-management practices for animal handling and movement, animal health diagnosis and treatment, and other topics related to animal care on dairy farms.

Other Resources
Dairy producer success extends beyond the productivity and profitability of your herds. Merck Animal Health has developed other resources to help you succeed:

- U.S. Dairy Farmers Care advocacy video
- Crisis avoidance and response plans

For more information about these services, contact your Merck Animal Health sales representative.
Reproduction

**Estrumate®** (cloprostenol sodium): Prostaglandin analogue containing cloprostenol sodium used to induce luteolysis in dairy cattle.1

**Fertagyl®** (gonadorelin): Indicated for the treatment of ovarian follicular cysts in dairy cattle.3

**CHORULON®** (chorionic gonadotropin): Indicated for use in dairy cows for the treatment of nymphomania (frequent or constant heat) due to cystic ovaries.3

**Vista® 5 L5 SQ**
For vaccination of healthy cows and heifers prior to breeding as an aid in the reduction of abortion due to IBR; and as an aid in preventing leptospirosis.

**Vista 3 VL5 SQ**
For the vaccination of healthy cows and heifers prior to breeding as an aid in reducing the risk of IBR; and as an aid in the prevention of fetal infection, including persistently infected calves caused by BVD virus Type 1 and Type 2; and prevention of disease caused by Campylobacter fetus (Vibriosis); and as an aid in preventing leptospirosis.

**VL5 SQ**
For use in vaccination of healthy cattle as an aid in reducing infertility (reproductive disease caused by *Campylobacter fetus*); and as an aid in preventing leptospirosis including *L. borgpetersenii* serovar *hardjo bovis*; and as an aid in prevention of urinary shedding of *L. hardjo* organisms.

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**Important safety information on Estrumate (cloprostenol sodium)**

**Safety and Toxicity:** At 50 and 100 times the recommended dose, mild side effects may be detected in some cattle; these include increased uneasiness, slight frothing, and milk let-down.

**Contraindications:** Estrumate should not be administered to pregnant animals whose calf is not to be aborted.

**Warnings:** For veterinary use only. Women of childbearing age, asthmatics, and persons with bronchial and other respiratory problems should exercise extreme caution when handling this product. In the early stages, women may be unaware of their pregnancies. Estrumate is readily absorbed through the skin and may cause abortion and/or bronchospasms; direct contact with the skin should therefore be avoided. Accidental spillage on the skin should be washed off immediately with soap and water.

For complete information on use refer to product package insert on pages 23-24.

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**Important safety information on Fertagyl (gonadorelin)**

**Caution:** Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

For complete information on use refer to product package insert on page 23.

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**Important safety information on Chorulon**

**Caution:** Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

**Adverse Reactions:** Chorionic gonadotropin is a protein. In the unlikely event of an anaphylactic reaction, epinephrine should be administered. The administration of an antihistamine may also be indicated.

**Residue Warnings:** No withdrawal period is required for cows treated according to label directions.

For complete information on use refer to product package insert on page 24.
Respiratory Vaccines

Nasalgen® IP
For the vaccination of healthy cattle as an aid in the prevention of disease caused by IBR and PI3 virus.

Once PMH® IN
Intranasal bacterial pneumonia vaccine, providing dual protection against Mannheimia haemolytica and Pasteurella multocida. Approved for cattle of all ages, starting as early as one week of age.

Vista Once SQ
For vaccination of healthy cattle using the only avirulent-live culture protection against Pasteurella multocida and Mannheimia haemolytica. Provides modified-live virus vaccine for use against Infectious Bovine Rhinotracheitis (IBR), Bovine Viral Diarrhea (BVD) Type 1 and Type 2, Parainfluenza, (PI3) and Bovine Respiratory Syncytial Virus (BRSV).

Vista 3 SQ
For use in healthy cattle as a modified-live virus vaccine for use against Infectious Bovine Rhinotracheitis (IBR) and Bovine Viral Diarrhea (BVD) Type 1 and Type 2.

Vista 5 SQ
For use in healthy cattle as a modified-live virus vaccine for use against Infectious Bovine Rhinotracheitis (IBR), Bovine Viral Diarrhea (BVD) Type 1 and Type 2, Parainfluenza, (PI3) and Bovine Respiratory Syncytial Virus (BRSV).

Once PMH® SQ
As an aid in the control of respiratory disease caused by Pasteurella multocida and Mannheimia haemolytica.
Guardian®
Guardian vaccine is a multiple antigen product that includes a cell-free extract of K99 plus type of Escherichia coli, a unique combination of two inactivated coronaviruses, two G types of inactivated rotaviruses and a bacterin-toxoid from Clostridium perfringens Types C and D. It is recommended for use in healthy heifers and cows as an aid in the prevention of neonatal calf diarrhea caused by enterotoxigenic E. coli plus type K99, bovine Group A Serotype G8 rotaviruses, enterotoxemia caused by C. perfringens Types C and D, and as an aid in the control of neonatal calf diarrhea caused by bovine coronaviruses.

Scours Vaccine

Guardian®
Guardian vaccine is a multiple antigen product that includes a cell-free extract of K99 plus type of Escherichia coli, a unique combination of two inactivated coronaviruses, two G types of inactivated rotaviruses and a bacterin-toxoid from Clostridium perfringens Types C and D. It is recommended for use in healthy heifers and cows as an aid in the prevention of neonatal calf diarrhea caused by enterotoxigenic E. coli plus type K99, bovine Group A Serotype G8 rotaviruses, enterotoxemia caused by C. perfringens Types C and D, and as an aid in the control of neonatal calf diarrhea caused by bovine coronaviruses.

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Nutritionals

BO-SE® (selenium, vitamin E) Injection
Emulsion of selenium-tocopherol for the prevention and treatment of white muscle disease (Selenium-Tocopherol Deficiency) syndrome in calves.

Important safety information on BO-SE use, contraindications, warnings and adverse reactions, see page 24.

MU-SE® (selenium, vitamin E) Injection

For complete information on use refer to product package insert on page 24.

Important safety information on MU-SE use, contraindications, warnings and adverse reactions, see page 24.

For complete information on use refer to product package insert on page 24.

1 For complete information on BO-SE use, contraindications, warnings and adverse reactions, see page 24.
2 For complete information on MU-SE use, contraindications, warnings and adverse reactions, see page 24.
Clostridial Vaccines

**Vision® CD-T**
For use in healthy dairy cattle as an aid in preventing diseases caused by *Clostridium perfringens* Types C and D (Enterotoxemia) and *C. tetani* (Tetanus).

**Vision 8**
For use in healthy dairy cattle as an aid in preventing disease caused by *Clostridium chauvoei* (Blackleg), *C. septicum* (Malignant edema), *C. novyi* (Black disease), *C. sordellii* and *C. perfringens* Types C and D (Enterotoxemia).

**Vision 8 Somnus**
For use in healthy dairy cattle as an aid in prevention of disease caused by *Clostridium chauvoei*, *C. septicum*, *C. haemolyticum* (Bacillary Hemoglobinuria (Red water)), *C. novyi* (Black disease), *C. sordellii*, *C. perfringens* Type C, *C. perfringens* Type D, and *Haemophilus somnus*.

**Vision CD**
For use in healthy dairy cattle as an aid in the prevention of Enterotoxemia caused by *Clostridium perfringens* Types C and D.

**Vision 7**
For use in healthy dairy cattle as an aid in the preventing disease caused by *Clostridium chauvoei* (Blackleg), *C. septicum* (Malignant edema), *C. novyi* (Black disease), *C. sordellii* and *C. perfringens* Types C and D (Enterotoxemia).

**Vision 7 Somnus**
For use in healthy dairy cattle as an aid in preventing disease caused by *Clostridium chauvoei* (Blackleg), *C. septicum* (Malignant edema), *C. novyi* (Black disease), *C. sordellii*, *C. perfringens* Types C and D (Enterotoxemia), and *Haemophilus somnus*.

**Cavalry™ 9**
For vaccination of healthy dairy cattle against diseases caused by *Clostridium chauvoei*, *C. septicum*, *C. novyi* Type B, *C. haemolyticum*, *C. sordellii*, *C. tetani* and *C. perfringens* Types C and D.

**Covexin® 8**
For the vaccination of healthy dairy cattle against diseases caused by *Clostridium chauvoei*, *C. septicum*, *C. novyi* Type B, *C. haemolyticum* (known elsewhere as *C. novyi* Type D), *C. tetani* and *C. perfringens* Types C and D.
Pinkeye Vaccines

**Piliguard® Pinkeye TriView**
A cell-free bacterin in an oil emulsion adjuvant containing pili from cultures of *Moraxella bovis* isolates referred to by Merck Animal Health as strains 33, 89 and 109 and specifically selected for their ability to cross-react with field strains. Piliguard Pinkeye TriView bacterin is for use in healthy cattle four weeks of age or older as an aid in the reduction of disease associated with infection by *Moraxella bovis*. Piliguard Pinkeye TriView cross-reacts against 103 strains of pinkeye-causing bacteria.

**Piliguard Pinkeye+7**
Aids in the control of pinkeye caused by *Moraxella bovis* strains expressing pili similar to those expressed by isolates referred to by Merck Animal Health as strains EPP 63, FLA 64, and SAH 38, and against diseases caused by *Clostridium chauvoei*, *Cl. septicum*, *Cl. novyi* Type B, *Cl. sordellii* and *Cl. perfringens* Types C and D. Immunity is also provided against *Cl. perfringens* Type B. This immunity is derived from the combination of the Type C (beta) and Type D (epsilon) fractions.

**Piliguard® Pinkeye TriView**
A cell-free bacterin in an oil emulsion adjuvant containing pili from cultures of *Moraxella bovis* isolates referred to by Merck Animal Health as strains 33, 89 and 109 and specifically selected for their ability to cross-react with field strains. Piliguard Pinkeye TriView bacterin is for use in healthy cattle four weeks of age or older as an aid in the reduction of disease associated with infection by *Moraxella bovis*. Piliguard Pinkeye TriView cross-reacts against 103 strains of pinkeye-causing bacteria.

**Piliguard Pinkeye-7**
For use in healthy dairy cattle as an aid in preventing disease caused by *Clostridium chauvoei* (Blackleg), *Cl. septicum* (Malignant edema), *Cl. novyi* (Black disease), *Cl. sordellii* and *Cl. perfringens* Types C and D (Enterotoxemia) and *Moraxella bovis* (Pinkeye or infectious bovine keratoconjunctivitis).

**20/20 Vision 7**
For use in healthy dairy cattle as an aid in preventing disease caused by *Clostridium chauvoei* (Blackleg), *Cl. septicum* (Malignant edema), *Cl. novyi* (Black disease), *Cl. sordellii* and *Cl. perfringens* Types C and D (Enterotoxemia) and *Moraxella bovis* (Pinkeye or infectious bovine keratoconjunctivitis).
Indicated for treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida, and Histophilus somni in beef and non-lactating dairy cattle, and for the control of respiratory disease in beef and non-lactating dairy cattle at high risk of developing BRD associated with M. haemolytica, P. multocida, and M. somni.1

Resflor Gold® (florfenicol and flunixin meglumine): RESIDUE WARNINGS: Animals intended for human consumption must not be slaughtered within 44 days of treatment. Do not use in female dairy cattle 20 months of age or older. Use of flunixin in this class of cattle may cause milk residues. A withdrawal period has not been established in pre-slaughter calves. Do not use in calves to be processed for veal.

Nuflor Gold® (florfenicol): Injectable Solution: RESIDUE WARNINGS: Animals intended for human consumption must not be slaughtered within 38 days of treatment. Do not use in female dairy cattle 20 months of age or older. Use of florfenicol in this class of cattle may cause milk residues. A withdrawal period has not been established in pre-slaughter calves. Do not use in calves to be processed for veal.

Nuflor® (florfenicol): Injectable Solution: RESIDUE WARNINGS: Animals intended for human consumption must not be slaughtered within 28 days of the last intramuscular treatment. Animals intended for human consumption must not be slaughtered within 36 days of subcutaneous treatment. Do not use in female dairy cattle 20 months of age or older. Use of florfenicol in this class of cattle may cause milk residues. A withdrawal period has not been established in pre-slaughter calves. Do not use in calves to be processed for veal.

Dariclox® (sodium cloxacillin): Intramammary Antibiotic: WARNINGS: Milk taken from animals during treatment and for 48 hours (4 milkings) after the last treatment must not be used for food. Treated animals must not be slaughtered for food purposes within 10 days after the last treatment.

Amoxi-Mast® (amoxicillin): Intramammary Antibiotic: WARNINGS: Milk taken from animals during treatment and for 48 hours (4 milkings) after the last treatment must not be used for food. Treated animals must not be slaughtered for food purposes within 10 days after the last treatment.

Dariclox® (sodium cloxacillin): Intramammary Antibiotic: WARNINGS: Milk taken from animals during treatment and for 48 hours (4 milkings) after the last treatment must not be used for food. Treated animals must not be slaughtered for food purposes within 10 days after the last treatment.
Internal Parasite Control

Safe-Guard® (fenbendazole) En-Pro-AL® Molasses Block
Comes in highly palatable, 25 lb. block of En-Pro-AL soft-poured molasses. One block treats 8,000 lb. (500 lb. of cattle per 1.5 lb.).

Safe-Guard® (fenbendazole) Protein Block
Comes in highly palatable, 25 lb. block of Safe-Guard 20% protein. One block treats 8,000 lb. (500 lb. of cattle per 1.5 lb.).

PANACUR® (fenbendazole) Suspension (Drench)
Available from your veterinarian. For removal and control of Lungworms, Stomach worms (Barberpole worms, brown stomach worms, small stomach worms) and Intestinal worms (Hookworms, thread-necked intestinal worms, small intestinal worms. Bankrupt worms. Nodular worms).

Safe-Guard® (fenbendazole) Suspension (Drench)
A single application, low-dose volume suspension with easy-to-use applicator gun for accurate, stress-free deworming. One liter deworms 43,478 lb. of cattle; one gallon deworms 164,565 lb. (2.33cc/100 lb. of cattle).

Safe-Guard® (fenbendazole) Flake Meal
Safe-Guard (fenbendazole) Mini Pellets
Comes in 25 lb. flaked meal or soft mini-pellets. One pail treats 98,000 lb. of cattle. Topdress at ¼ lb per 1,000 lb. of cattle.

Safe-Guard (fenbendazole) Paste
A single application, low-dose volume paste with specially designed metal hook for convenient dosing. Each 290 g paste cartridge deworms 12,100 lb. of cattle.

Safe-Guard (fenbendazole) Free-Choice Mineral
Available in a 25 lb. plastic pail of 20% salt and is the only dewormer available in a free-choice mineral form. Feed over a three to six day period; eight oz per 500 lb. of cattle.

Safe-Guard Feed (fenbendazole) Manufacturer Range Cubes
High-quality range cubes used for deworming cattle on pasture. Deworms in a single feeding. Formulations and consumption levels required may vary by company so follow label directions for use.

Safe-Guard Feed (fenbendazole) Liquid Feed
The first and only FDA-approved complete liquid feed dewormer on the market. Cattle can now get the parasite protection they require on-pasture on a free-choice basis any time in a highly palatable formulation. The standardized free-choice liquid feed delivers the necessary dose of fenbendazole in an average of 3 to 6 days which is needed to keep both your cattle and your bottom line healthy.

Safe-Guard (fenbendazole) Alfalfa-Based Pellets
Available in 1 lb., 5 lb., 10 lb. or 25 lb. bags of 0.5% Alfalfa-based pellets. Topdress at 1 lb. per 1,000 lb. of cattle. Deworms in a single feeding.

RESIDUE WARNING: Cattle must not be slaughtered within 6 days following last treatment. For dairy cattle, the milk discard time is zero hours. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

RESIDUE WARNING: Cattle must not be slaughtered within 11 days following last treatment. For dairy cattle, the milk discard time is zero hours. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

RESIDUE WARNING: Cattle must not be slaughtered within 8 days following last treatment. For dairy cattle, the milk discard time is zero hours. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

RESIDUE WARNING: Cattle must not be slaughtered within 13 days following last treatment. For dairy cattle, the milk discard time is zero hours. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.
External Parasite Control

**Grenade® ER**
- 9.7% lambdacyhalothrin
- A broad-spectrum premise insecticide for pest control in, on and around livestock buildings, structures and surroundings.
- Microencapsulated for long-lasting control of a wide variety of insects that plague surfaces.

**Ultra Boss® Pour-On Insecticide**
- 9% permethrin and 5% piperonyl butoxide
- A pour-on insecticide for beef, dairy, and lactating cattle. Low-volume dosage reduces time and labor. No preslaughter withdrawal. No milk discard. Target species: lice, horn flies, face flies, horse flies, stable flies, mosquitoes, black flies and ticks.
- Apply 3 mL per 100 lb. body weight, up to the 30 mL maximum application limit. Also approved for use in backrubbers.

**Boss® Pour-On Insecticide**
- 5% permethrin
- Pour-on fly control for lactating and non-lactating cattle.
- Low-volume, no preslaughter withdrawal, no milk discard.
- Apply 3 mL per 100 lb. body weight, up to the 30 mL maximum application limit.

**Synergized DeLice® Pour-On Insecticide**
- 1% Permethrin, 1% Piperonyl Butoxide
- Controls lice, horn flies, face flies, horse flies, stable flies, mosquitoes, black flies and ticks.
- Apply 3 mL per 100 lb. body weight, up to the 30 mL maximum application limit. Also approved for use in backrubbers.

**Double Barrel VP®**
- 14% pirimiphos methyl and 6.8% lambdacyhalothrin.
- Two active ingredients minimize development of resistance. For control of horn flies and face flies on non-lactating cattle and calves.

**Saber® Extra Insecticide Ear Tags**
- 10% Lambdacyhalothrin and 13% Piperonyl Butoxide.
- For up to 9-months control of horn flies and up to 4-months control of face flies on non-lactating cattle and calves.
ATROBAN 11% EC
11% Permethrin Emulsifiable Concentrate.
Controls horn flies, face flies, stable flies, house flies, horse flies, black flies, mosquitoes, eye gnats, mites, ticks and lice.

ATROBAN 1% DeLice® Pour-On Insecticide
1% Permethrin, ready-to-use.
Non-systemic pour-on insecticide for lactating and non-lactating cattle. Oil-based for greater duration of activity.

Dominator® Insecticide Ear Tags
20% Pirimiphos Methyl.
Controls horn flies for up to 5 months (including synthetic pyrethroid-resistant horn flies) and as an aid in the control of face flies on non-lactating cattle and calves.

ATROBAN 42.5% EC
42.5% Permethrin Emulsifiable Concentrate
Control of susceptible horn flies, face flies, stable flies, house flies, horse flies, mosquitoes, lice and ticks. Use as animal or premise spray, or in dip vats.

ATROBAN 11% EC Quart
11% Permethrin Emulsifiable Concentrate.
Controls horn flies, face flies, stable flies, house flies, horse flies, black flies, mosquitoes, eye gnats, mites, ticks and lice.

ATROBAN 11% EC Pint

ATROBAN 1% DeLice® Pour-On Insecticide 1% Permethrin, ready-to-use.
Non-systemic pour-on insecticide for lactating and non-lactating cattle. Oil-based for greater duration of activity.

Pint

Quart

Gallon

20 ear tags per box
**PRODUCT INFORMATION**

**NUFLORET GOLD** injectable solution 300 mg/mL

**CONTRAINDICATIONS:**

- Do not use in cattle older than 12 months of age.
- Do not use in calves to be processed for veal.

**CLINICAL PHARMACOLOGY:**

- **Florfenicol:** Florfenicol is a synthetic, broad-spectrum antibiotic active against Gram-negative and Gram-positive bacteria isolated from domestic animals. It acts by binding to the 50S ribosomal subunit and inhibiting bacterial protein synthesis. Florfenicol is generally considered a bactericidal drug, but widespread use of the drug may result in the selection of resistance. Inflammation caused by certain bacterial species in which florfenicol is active against the BCG pathogen is unaffected. If the species are not of animal origin, florfenicol may also exert an anti-inflammatory effect.

**MICROBIOLOGY:**

- Florfenicol was tested against a variety of BRD isolates obtained from calves in 2006. The MIC50 and MIC90 values of florfenicol for *Mannheimia haemolytica*, Pasteurella multocida, *Histophilus somni*, and *Mycoplasma bovis* are shown in Table 3.

**PHARMACOKINETICS:**

- The pharmacokinetic parameters for florfenicol after a single subcutaneous administration of NUFLORET GOLD (florfenicol) are presented in Table 2.

**RECOMMENDATIONS:**

- **Prevention and Treatment:** For prevention and treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, Pasteurella multocida, *Histophilus somni*, and *Mycoplasma bovis*.

- **Injection Site:** The minimum inhibitory concentrations (MICs) of florfenicol were determined for BRD isolates obtained from calves in 2006. The MIC50 and MIC90 values of florfenicol for *Mannheimia haemolytica*, Pasteurella multocida, *Histophilus somni*, and *Mycoplasma bovis* are shown in Table 3.

**PHARMACOKINETIC DATA:**

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**REFERENCES:**


**ADDITIONAL INFORMATION:**

- For customer service or to report suspected adverse reactions, or to obtain a copy of the Material Safety Data Sheet, call 1-800-338-0289.

- Made in Germany

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- All rights reserved.

**NUFLORET GOLD** injectable solution 300 mg/mL

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**RECOMMENDATIONS:**

- **Prevention and Treatment:** For prevention and treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, Pasteurella multocida, *Histophilus somni*, and *Mycoplasma bovis*.

- **Injection Site:** The minimum inhibitory concentrations (MICs) of florfenicol were determined for BRD isolates obtained from calves in 2006. The MIC50 and MIC90 values of florfenicol for *Mannheimia haemolytica*, Pasteurella multocida, *Histophilus somni*, and *Mycoplasma bovis* are shown in Table 3.

**PHARMACOKINETIC DATA:**

- The pharmacokinetic parameters for florfenicol after a single subcutaneous administration of NUFLORET GOLD (florfenicol) are presented in Table 2.

**REFERENCES:**


**ADDITIONAL INFORMATION:**

- For customer service or to report suspected adverse reactions, or to obtain a copy of the Material Safety Data Sheet, call 1-800-338-0289.

- Made in Germany

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**Bo-SE** (Selenium, Vitamin E) Injection

**FERTAGYL® (Fadrozole HCl)** Injection for Insemination for the Prevention of Cyostic Ovaries in Cattle

**FERTAGYL® (Gonadorelin A HCl)** Injection for Intramuscular Administration of 2.19 mg sodium selenite (equivalent to 5 mg selenium), 50 mg (68 USP units) vitamin E (as α-tocopherol acetate), 30 mg polyphosphates, 2%, benzyl alcohol (preservative), water for injection, sodium hydroxide and/or hydrochloric acid may be added to adjust pH.

**PRODUCT INFORMATION**
NADA F30-314. Approved by FDA.

**MU-SE® (Selenium, Vitamin E) Injection**

**PRODUCT INFORMATION**
NADA F30-178. Approved by FDA.

**FERTAGYL®**

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**PRODUCT INFORMATION**
NADA F30-314. Approved by FDA.

**MU-SE® (Selenium, Vitamin E) Injection**

**PRODUCT INFORMATION**
NADA F30-178. Approved by FDA.


**Orbenin-DC** (benzathine cloxacillin)

**DRY COW**

**Intramammary Infusion**

**LONG ACTING FORMULA**

**CAUTION:** Federal law restricts this drug to use by or on the order of a veterinarian.

**DESCRIPTION:** Orbenin-DC (benzathine cloxacillin) is a stable, calcified, non-absorbable salt of cloxacillin derived from a single tank fermentation of Streptococcus sp. (penicillinase negative) strain 85/252. It is supplied as a sterile, lyophilized powder in vials with a sterilized vial stopper and sterile vial seal. Each vial contains 500 mg of benzathine cloxacillin. The free base content of this product is equivalent to 250 mcg of amorolfine.

**STORAGE:** Stabilized powder for reconstitution. Store at room temperature. After reconstitution, store at 2°C to 8°C (36°F to 46°F) and use within 48 hours. Do not freeze.

**Dosage and Administration:** Use aseptic technique when preparing and administering the product. Except for intramammary infusion, the product is not intended for injection. Oral administration is not recommended. The product is administered by intramuscular injection. The 500 mg vial is reconstituted with 10 mL of sterile water for injection, and the 1000 mg vial is reconstituted with 20 mL of sterile water for injection. For intramammary infusion, the product is prepared for use by reconstituting with 10 mL of sterile water for injection, or 4 mL of 9% sodium chloride for injection.

**Do Not Store Above 24°C (75°F)**

NAD: 55-201

**Intramammary Infusion** (Infection intramamaria)

**CAUTION:** Federal law restricts this drug to use by or on the order of a veterinarian.

**DESCRIPTION:** Amoxicillin is a stable, macrolide antibiotic derived from Streptomyces rimosus through biotransformation of erythromycin. It is supplied as a sterile, lyophilized powder in vials with a sterilized vial stopper and sterile vial seal. Each vial contains 1000 mg of amoxicillin equivalent to 500 mg of amoxicillin.

**STORAGE:** Stabilized powder for reconstitution. Store at room temperature. After reconstitution, store at 2°C to 8°C (36°F to 46°F) and use within 48 hours. Do not freeze.

**Dosage and Administration:** Use aseptic technique when preparing and administering the product. Except for intramammary infusion, the product is not intended for injection. Oral administration is not recommended. The product is administered by intramuscular injection.

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**Dosage and Administration:** Use aseptic technique when preparing and administering the product. Except for intramammary infusion, the product is not intended for injection. Oral administration is not recommended. The product is administered by intramuscular injection.

**Amoxicillin (amoxici林)**

**Intramammary Infusion** (Infection intramamaria)

**CAUTION:** Federal law restricts this drug to use by or on the order of a veterinarian.

**DESCRIPTION:** Amoxicillin is a stable, macrolide antibiotic derived from Streptomyces rimosus through biotransformation of erythromycin. It is supplied as a sterile, lyophilized powder in vials with a sterilized vial stopper and sterile vial seal. Each vial contains 1000 mg of amoxicillin equivalent to 500 mg of amoxicillin.

**STORAGE:** Stabilized powder for reconstitution. Store at room temperature. After reconstitution, store at 2°C to 8°C (36°F to 46°F) and use within 48 hours. Do not freeze.

**Dosage and Administration:** Use aseptic technique when preparing and administering the product. Except for intramammary infusion, the product is not intended for injection. Oral administration is not recommended. The product is administered by intramuscular injection.

**Amoxicillin (amoxici林)**

**Intramammary Infusion** (Infection intramamaria)

**CAUTION:** Federal law restricts this drug to use by or on the order of a veterinarian.

**DESCRIPTION:** Amoxicillin is a stable, macrolide antibiotic derived from Streptomyces rimosus through biotransformation of erythromycin. It is supplied as a sterile, lyophilized powder in vials with a sterilized vial stopper and sterile vial seal. Each vial contains 1000 mg of amoxicillin equivalent to 500 mg of amoxicillin.

**STORAGE:** Stabilized powder for reconstitution. Store at room temperature. After reconstitution, store at 2°C to 8°C (36°F to 46°F) and use within 48 hours. Do not freeze.

**Dosage and Administration:** Use aseptic technique when preparing and administering the product. Except for intramammary infusion, the product is not intended for injection. Oral administration is not recommended. The product is administered by intramuscular injection.

**Amoxicillin (amoxici林)**

**Intramammary Infusion** (Infection intramamaria)

**CAUTION:** Federal law restricts this drug to use by or on the order of a veterinarian.

**DESCRIPTION:** Amoxicillin is a stable, macrolide antibiotic derived from Streptomyces rimosus through biotransformation of erythromycin. It is supplied as a sterile, lyophilized powder in vials with a sterilized vial stopper and sterile vial seal. Each vial contains 1000 mg of amoxicillin equivalent to 500 mg of amoxicillin.

**STORAGE:** Stabilized powder for reconstitution. Store at room temperature. After reconstitution, store at 2°C to 8°C (36°F to 46°F) and use within 48 hours. Do not freeze.

**Dosage and Administration:** Use aseptic technique when preparing and administering the product. Except for intramammary infusion, the product is not intended for injection. Oral administration is not recommended. The product is administered by intramuscular injection.