WHAT DRIVES YOU DRIVES US.

At Merck Animal Health, the science of healthier animals is our way of life. Just as your passion is raising cattle, our passion is boosting your potential by improving cattle health, performance and well-being through innovative science-based solutions.

Your cattle are your livelihood, and we take our commitment to meeting your distinct needs very seriously. That commitment is what drives us to deliver advanced research, product innovations and superior service.

Whether you raise beef or dairy cattle, we offer a complete line of cattle health and performance products for every stage of production. Along with world-class products, we offer technical expertise and solutions that support and complement your business every step of the way.

For more information about Merck Animal Health products and the science of healthier animals, contact your Merck Animal Health representative today.
All Vista® vaccines are labeled for use in pregnant cows and calves nursing pregnant cows. Vista Once, Vista 5 and Vista 3 are the only modified-live vaccines with at least one-year duration of immunity (DOI) label with challenge data for respiratory disease caused by IBR and BVD Type 1 and Type 2.

Industry-leading Vista Once and Once PMH® SQ also have a 16-week DOI for Pasteurella multocida and Mannheimia haemolytica.

**RESPIRATORY VACCINES**

**Vista Once SQ**
For vaccination of healthy cattle using the only avirulent-live culture as an aid in the control of disease caused by Mannheimia haemolytica and Pasteurella multocida. Aids in the control of disease caused by Bovine Virus Diarrhea (BVD) Virus (Type 1) Parainfluenza, (PI3). Provides modified-live virus vaccine as an aid in the prevention of respiratory disease caused by Infectious Bovine Rhinotracheitis (IBR), BVD Type 2, and Bovine Respiratory Syncytial Virus (BRSV). Additionally, Vista Once SQ is for the vaccination of healthy cows and heifers prior to breeding as an aid in the prevention of fetal infection, including persistently infected calves caused by BVD (Types 1 & 2); and as an aid in the prevention of persistently infected calves caused by BVD (Type 2); and as an aid in the reduction of abortion due to IBR.

10 dose | 50 dose

**Vista 5 SQ**
For use in healthy cattle as a modified-live virus vaccine as an aid in prevention of disease caused by Infectious Bovine Rhinotracheitis (IBR), Bovine Viral Diarrhea (BVD) Type 2, and Bovine Respiratory Syncytial Virus (BRSV) and as an aid in control of disease caused by BVD Type 1 and Parainfluenza, (PI3). In addition, this product is for vaccination of healthy cows and heifers prior to breeding as an aid in reduction of abortion due to IBR and as an aid in prevention of fetal infection, including persistently infected calves caused by BVD (Types 1 & 2). Also available in combination with the only avirulent-live culture as an aid in the control of disease caused by Mannheimia haemolytica and Pasteurella multocida.

10 dose | 50 dose

**Vista 3 SQ**
For use in healthy cattle as a modified-live virus vaccine as an aid in the prevention of disease caused by Infectious Bovine Rhinotracheitis (IBR) and Bovine Viral Diarrhea (BVD) Type 2 and as aid in the control of disease caused by BVD Type 1. In addition, this product is for vaccination of healthy cows and heifers prior to breeding as an aid in reduction of abortion due to IBR and as an aid in prevention of fetal infection, including persistently infected calves caused by BVD Types 1 and 2.

50 dose
Once PMH IN
Intranasal bacterial pneumonia vaccine, providing dual protection as an aid in the control of respiratory disease caused by Mannheimia haemolytica and as an aid in the prevention of disease caused by Pasteurella multocida. Approved for cattle of all ages, starting as young as 1 week of age.

10 dose | 50 dose | 25 x 1 dose

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

10 dose | 50 dose

Once PMH SQ
As an aid in the control of respiratory disease caused by Mannheimia haemolytica and Pasteurella multocida.

10 dose | 50 dose
Vision® takes the stress out of blackleg protection. Developed to minimize the negative impact of vaccination on performance, Vision offers a high level of immunity with a low level of injection-site reactions. With Vision, you’ll see better cost of gains, better feed conversion and greater weaning weights when compared to conventional clostridial vaccines.* Vision is available in a variety of vaccine combinations to fit your needs.

*Take the Stress out of Blackleg Protection (Tech.). (n.d.).
CLOSTRIDIAL VACCINES CONT.

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

50 dose

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

250 dose

**Cavalry® 9**
For the vaccination of healthy cattle as an aid in the prevention of diseases caused by *Clostridium chauvoei*, *Cl. septicum*, *Cl. novyi* Type B, *Cl. haemolyticum* (known elsewhere as *Cl. novyi* Type D), *Cl. tetani* and *Cl. perfringens* Types C and D.

10 dose | 50 dose | 125 dose

**Covexin® 8**
For the vaccination of healthy cattle as an aid in the prevention of diseases caused by *Clostridium chauvoei*, *Cl. septicum*, *Cl. novyi* Type B, *Cl. haemolyticum* (known elsewhere as *Cl. novyi* Type D), *Cl. tetani* and *Cl. perfringens* Types C and D.

10 dose | 50 dose
SCOURS VACCINES

Minimize calf scour losses with Guardian® and Bovilis® Coronavirus.

Calf scours (neonatal calf diarrhea) continues to be a top cause of calf mortality, and a costly issue for the industry. Guardian delivers superior protection against calf scours by providing neonatal calves with effective clostridium antibodies through vaccination for E. coli pilus type K99, Bovine Group A Serotype G6 rotaviruses, Enterotoxemia caused by Cl. perfringens Types C and D and Bovine Coronavirus (BCV).

Most severe during winter months, Bovine Coronavirus is often prevalent in dairy calves and cow/calf beef herds, and is frequently diagnosed as the leading pathogen in neonatal calves. Bovilis Coronavirus—the first modified-live, intranasal vaccine available for the reduction of enteric disease caused by coronavirus—is approved for use in calves as young as 3 days of age and can greatly reduce the impact of BCV in the herd.

Guardian
Guardian vaccine is a multiple antigen product that includes a cell-free extract of K99 pilus 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 pilus type K99, bovine Group A Serotype G6 rotaviruses, enterotoxemia caused by Cl. perfringens Types C and D, and as an aid in the control of neonatal calf diarrhea caused by bovine coronaviruses.

10 dose | 50 dose

Bovilis Coronavirus
For the vaccination of healthy cattle 3 days of age and older as an aid in the reduction of enteric disease caused by Bovine Coronavirus. Safety has been demonstrated in calves 1 day of age or older.

10 dose | 50 dose | 25x1 dose
Stop pinkeye before it starts with Piliguard® vaccines. Piliguard vaccines are designed to help boost immunity against Moraxella bovis, the bacteria that causes pinkeye infections. Vaccinating your herd with Piliguard can prevent infections and reduce the severity of infections when outbreaks occur. The Piliguard line includes a variety of formulations, so you can find the option that fits your needs.

**PINKEYE VACCINES**

**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.

| 10 dose | 50 dose |

**Piliguard Pinkeye-1 Trivalent**
For use in healthy cattle to aid in the control of pinkeye associated with infection 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.

| 10 dose | 50 dose |

**20/20 Vision 7**
For use in healthy 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).

| 10 dose | 50 dose |
White muscle disease can be devastating to your herd, especially in young calves. Treat and prevent white muscle disease with BO-SE® (selenium and d-alpha-tocopherol acetate). Gentle but effective, BO-SE is formulated just for calves.

Bovine Respiratory Disease (BRD) is a multi-factorial disease. Even though it has been studied extensively, BRD still remains the number one cause of disease and death in cattle. Our anti-infective/therapeutic lineup provides fast-acting control and treatment of BRD.

**ANTI-INFECTIVES/THERAPEUTICS**

Zuprevo® 18% (tildipirosin)
Indicated for the 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 H. somni.

100 mL | 250 mL

Resflor Gold® (florfenicol and flunixin meglumine)
Indicated for treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis, and control of BRD-associated pyrexia in beef and non-lactating dairy cattle.

100 mL | 250 mL | 500 mL

Nuflor® (florfenicol) Injectable Solution
Indicated for treatment of bovine respiratory disease (BRD), associated with Mannheimia haemolytica, Pasteurella multocida and Histophilus somni (Haemophilus somni), and for the treatment of bovine interdigital phlegmon (foot rot, acute interdigital necrobacillosis, infectious pododermatitis) associated with Fusobacterium necrophorum and Bacteroides melaninogenicus. Also, indicated for the control of respiratory disease in cattle at high risk of developing BRD associated with Mannheimia haemolytica, Pasteurella multocida and Histophilus somni (Haemophilus somni).

100 mL | 250 mL | 500 mL

Banamine® (flunixin meglumine) Injectable Solution
Indicated for the control of pyrexia associated with bovine respiratory disease, endotoxemia and acute bovine mastitis. Also indicated for the control of inflammation in endotoxemia.

100 mL | 250 mL
ANTI-INFECTIVES/THERAPEUTICS
IMPORTANT SAFETY INFORMATION

Zuprevo 18% (tildipirosin)
IMPORTANT SAFETY INFORMATION: FOR USE IN ANIMALS ONLY. NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN. TO AVOID ACCIDENTAL INJECTION, DO NOT USE IN AUTOMATICALLY POWERED SYRINGES WHICH HAVE NO ADDITIONAL PROTECTION SYSTEM. IN CASE OF HUMAN INJECTION, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THE PACKAGE INSERT OR LABEL TO THE PHYSICIAN. DO NOT USE IN SWINE. Fatal adverse events have been reported following the use of tildipirosin in swine. NOT FOR USE IN CHICKENS OR TURKEYS. Cattle intended for human consumption must not be slaughtered within 21 days of the last treatment. Do not use in female dairy cattle 20 months of age or older. Use of this drug product in these animals may cause milk residues. Subcutaneous injection may result in local tissue reactions which persist beyond slaughter withdrawal period. This may result in trim loss of edible tissue at slaughter.

1 For complete information on Zuprevo use, contraindications, warnings and adverse reactions, see page 55.

Resflor Gold (florfenicol and flunixin meglumine)
IMPORTANT SAFETY INFORMATION: NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN. This product contains material that can be irritating to skin and eyes. Animals intended for human consumption must not be slaughtered within 38 days of last treatment. This product contains material that can be irritating to skin and eyes. 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 38 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-ruminating calves. Do not use in calves to be processed for veal. Do not use in animals that have shown hypersensitivity to florfenicol or flunixin. Not for use in animals intended for breeding purposes. The effects of florfenicol and flunixin on bovine reproductive performance, pregnancy and lactation have not been determined. When administered according to the label directions, Resflor Gold may induce a transient local reaction in the subcutaneous and underlying muscle tissue.

2 For complete information on Resflor Gold use, contraindications, warnings and adverse reactions, see page 48.

Nuflor (florfenicol) Injectable Solution:
IMPORTANT SAFETY INFORMATION: NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN. This product contains materials that can be irritating to skin and eyes. 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 38 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-ruminating calves. Do not use in calves to be processed for veal. Not for use in animals intended for breeding purposes. The effects of florfenicol on bovine reproductive performance, pregnancy and lactation have not been determined. Intramuscular injection may result in local tissue reaction which persists beyond 28 days. This may result in trim loss of edible tissue at slaughter. Tissue reaction at injection sites other than the neck is likely to be severe.

3 For complete information on Resflor Gold use, contraindications, warnings and adverse reactions, see page 49.

Banamine (flunixin meglumine) Injectable Solution:
RESIDUE WARNINGS: Cattle must not be slaughtered for human consumption within 4 days of the last treatment. Milk that has been taken during treatment and for 36 hours after the last treatment must not be used for food. Not for use in dairy cattle. A withdrawal period for recovery has not been established for this product in non-priming cattle. Do not use in cats. A withdrawal period has not been established in pre-ruminating calves. Intramuscular injection may result in local tissue reaction which persists beyond 28 days. This may result in trim loss of edible tissue at slaughter. Tissue reaction at injection sites other than the neck is likely to be severe.

4 For complete information on Banamine use, contraindications, warnings and adverse reactions, see page 50.

Banamine® Transdermal (flunixin transdermal solution)
Indicated for the control of pain associated with foot rot and the control of pyrexia associated with bovine respiratory disease (BRD). It is a non-steroidal anti-inflammatory drug (NSAID), and the first non-parasiticide cattle product to be administered as a pour-on.

100 mL | 250 mL | 1 L

6 For complete information on Banamine Transdermal use, contraindications, warnings and adverse reactions, see page 51.
Good udder health contributes to the wellness of dairy cattle. It also helps dairy farmers save costs and achieve better milk quality and production. Merck Animal Health offers treatment and prevention solutions to maintain quality in every drop of milk.

**UDDER HEALTH**

**Orbenin®-DC (benzathine cloxacillin) Intramammary Infusion**
For the treatment and prophylaxis of bovine mastitis in non-lactating cows due to *Staphylococcus aureus* and *Streptococcus agalactiae*.^5^
12 dose

**Amoxi-Mast® (amoxicillin) Intramammary Antibiotic**
An intramammary preparation containing amoxicillin for the treatment of subclinical infectious bovine mastitis in lactating cows due to *Streptococcus agalactiae* and penicillin-sensitive *Staphylococcus aureus*.^6^
12 dose

**Dariclox® (sodium cloxacillin) Intramammary Antibiotic**
For the treatment of bovine mastitis in lactating cows due to *Streptococcus agalactiae* and nonpenicillinase-producing *Staphylococcus aureus*.^7^
12 dose

**Bovilis J-5**
For the vaccination of healthy dairy cattle as an aid in the reduction of mastitis due to *Escherichia coli*.
50 dose

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^5 For complete information about Orbenin-DC use, contraindications, warnings and adverse reactions, see page 51.

^6 For complete information about Amoxi-Mast use, contraindications, warnings and adverse reactions, see page 51.

^7 For complete information about Dariclox use, contraindications, warnings and adverse reactions, see page 52.
UDDER HEALTH
IMPORTANT SAFETY INFORMATION

Orbenin-DC (benzathine cloxacillin) Intramammary Infusion:
WARNINGS: For use in dry cows only. Do not use within four weeks (28 days) of calving. Treated animals must not be slaughtered for food purposes within four weeks (28 days) of treatment. For complete information about Orbenin-DC use, contraindications, warnings and adverse reactions, see page 51.

Amoxi-Mast (amoxicillin) Intramammary Antibiotic:
WARNINGS: Milk taken from animals during treatment and for 120 hours (five milkings) after the last treatment must not be used for food. Treated animals must not be slaughtered for food purposes within 12 days after the last treatment. For more information, see the product label.

Dariclox (sodium cloxacillin) Intramammary Antibiotic:
WARNINGS: Milk taken from animals during treatment and for 48 hours (four 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. For more information, see the product label.
REPRODUCTION

Reproductive performance is a major factor affecting the production and economic efficiency of cattle operations. Let our powerful lineup of reproductive products help you improve your overall herd health and increase your bottom line.

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

| 10 dose | 50 dose |

**Vista 3 VL5 SQ**
For the 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 the prevention of fetal infection, including persistently infected calves caused by BVD virus Type 1 and Type 2. In addition, it can be used as an aid in the prevention of disease caused by IBR, BVD Type 2; as an aid in the control of disease caused by BVD Type 1; as an aid in reducing infertility (reproductive disease caused by *Campylobacter fetus*); and as an aid in preventing leptospirosis and as an aid in prevention of urinary shedding of *L. hardjo* organisms.3

| 10 dose | 50 dose |

**Fertagyl® (gonadorelin)**
Indicated for the treatment of ovarian follicular cysts in dairy cattle. Also for use with Estrumate (cloprostenol sodium) to synchronize estrous cycles to allow for fixed time artificial insemination in lactating dairy cows.2

| 10 dose | 50 dose |

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

| 5 dose |

Vista 5 L5 SQ
For vaccination of healthy cows, using the one of the only one-dose Leptospira hardjo-bovis protection in combination with five-way, modified-live virus as an aid in the reduction of abortion due to Infectious Bovine Rhinotracheitis (IBR); as an aid in prevention of fetal infection, including persistently infected calves caused by Bovine Viral Diarrhea (BVD) Type 1 and Type 2. In addition, it can be used as an aid in prevention of disease caused by IBR, BVD Type 2 and Bovine Respiratory Syncytial Virus (BRSV); as an aid in the control of disease caused by BVD Type 1 and Parainfluenza, as an aid in preventing Leptospirosis and as an aid in prevention of urinary shedding of L. hardjo organisms.

10 dose | 50 dose

Vista 5 VL5 SQ
For vaccination of healthy cows, using five-way, modified-live virus as an aid in the reduction of abortion due to Infectious Bovine Rhinotracheitis (IBR); as an aid in the prevention of fetal infection, including persistently infected calves caused by Bovine Viral Diarrhea (BVD) Type 1 and Type 2. In addition, it can be used as an aid in the prevention of disease caused by IBR, BVD Type 2, and bovine respiratory syncytial virus (BRSV); as an aid in the control of disease caused by BVD Type 1 and Parainfluenza, as an aid in reducing infertility (reproductive disease caused by Campylobacter fetus). Features five-way Leptospira protection as an aid in preventing leptospirosis and as an aid in prevention of urinary shedding of L. hardjo organisms.

10 dose | 50 dose

L5 SQ
For use in vaccination of healthy cattle as an aid in preventing Leptospirosis including L. borgpetersenii serovar hardjo bovis; as an anid in prevention of urinary shedding of L. hardjo organisms.

50 dose

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.

50 dose
Reliable, safe and effective. That’s why you can count on Revalor® (trenbolone acetate and estradiol).

The Merck Animal Health portfolio of cattle implants—including Revalor and Finaplix® (trenbolone acetate)—helps cattle feeders find the optimal balance between quality and efficiency. Packaged in 10-pellet cartridges, there’s an implant to fit every feeding scenario at your operation.

**IMPLANTS – FEEDYARD CATTLE**

**Revalor-200 (trenbolone acetate and estradiol)**
Revalor-200 is an implant containing 200 mg of trenbolone acetate and 20 mg estradiol. This product is used in an aggressive implant strategy as a single implant in confined cattle on feed for up to 130 days, or as a terminal implant in a re-implant strategy for steers and heifers fed for more than 130 days. This product is designed with a slow-release delivery system, which increases rate of weight gain and improves feed efficiency in steers and heifers fed in confinement. Each implant consists of 10 small yellow pellets and each cartridge contains 10 implants.

**Revalor-XS (trenbolone acetate and estradiol)**
Revalor-XS is an implant containing 200 mg of trenbolone acetate and 40 mg of estradiol. It is designed for steers fed in confinement and provides two doses in one single implant. The first dose, designed to be given when cattle are processed, is effective immediately, while the second dose, shielded by patented X7™ polymer coating, goes to work 70 to 80 days later without the need to re-process the cattle. Each implant consists of 10 small yellow pellets and each cartridge contains 10 implants.

**Revalor-XH (trenbolone acetate and estradiol)**
Revalor-XH is an implant containing 200 mg of trenbolone acetate and 20 mg of estradiol. It is designed for heifers fed in confinement and provides two doses in one single implant. The first dose, designed to be given when cattle are processed, is effective immediately, while the second dose, shielded by patented X7™ polymer coating, goes to work 70 to 80 days later without the need to re-process the cattle. Each implant consists of 10 small yellow pellets and each cartridge contains 10 implants.

**Revalor-IS (trenbolone acetate and estradiol)**
Revalor-IS is an implant containing 80 mg of trenbolone acetate and 16 mg estradiol. This original implant is intended to be used in short-term confined cattle and is designed with a slow-release delivery system for better quality grade. Each implant consists of four small yellow pellets and 10 implants are enclosed in each cartridge.

A withdrawal period has not been established for Ralgro, Revalor and Finaplix in pre-ruminating calves. Do not use in calves to be processed for veal. For complete information, refer to the product label.
Revalor-IH (trenbolone acetate and estradiol)
Revalor-IH is an implant containing 80 mg of trenbolone acetate and 8 mg estradiol. This original implant is intended for use as an initial implant in a re-implant strategy for heifers fed in confinement for more than 130 days. Each slow-release implant consists of four small yellow pellets and each cartridge contains 10 implants.

10 x 10

Revalor-S (trenbolone acetate and estradiol)
Revalor-S is the original implant containing 120 mg of trenbolone acetate and 24 mg of estradiol. It is intended for confined steers as a single implant for steers being fed for less than 130 days. Revalor-S increases rate of weight gain and improves feed efficiency in a slow-release delivery system. Each implant consists of six small yellow pellets. Ten implants are enclosed in each cartridge.

10 x 10

Revalor-H (trenbolone acetate and estradiol)
Revalor-H is the original implant containing 140 mg of trenbolone acetate and 14 mg estradiol. It is intended to be used as a single implant for confined heifers fed for less than 130, or as a terminal implant in an implant strategy for confined heifers fed for more than 130 days. Revalor-H increases rate of weight gain and improves feed efficiency in a slow-release delivery system. Each implant consists of seven small yellow pellets. Ten implants are enclosed in each cartridge.

10 x 10

Finaplix-H (trenbolone acetate)
Finaplix-H is a non-generic implant containing 200 mg of trenbolone acetate. It is intended for use in feedlot heifers 90 to 100 days prior to harvest. Finaplix-H provides optimum performance with relatively little risk of quality grade decline when feeding melengestrol acetate. Each implant consists of 10 small yellow pellets, and each pellet contains 20 mg of trenbolone acetate. There are 10 Finaplix-H implants provided in a cartridge.

10 x 10
IMPLANTS – PASTURE CATTLE

From suckling beef calves to weaned pasture steers and heifers, Merck Animal Health has a pasture implant solution to fit your operation’s needs. Ralgro® (zeranol) stimulates animals’ own natural growth systems to increase weight of gain. Revalor-G uses a lower hormone dosage, designed specifically for stocker cattle on pasture.

Ralgro (zeranol)
Increases rate of weight gain of suckling beef calves. It also increases the rate of weight gain and improves feed conversion of weaned beef calves, growing beef cattle, feedlot steers and feedlot heifers. The active ingredient zeranol stimulates the animal’s own natural growth system. Each implant contains three pellets of 12 mg zeranol totaling 36 mg per implant. There are 24 Ralgro implants provided in a cartridge.

1 x 24 | 10 x 24

Revalor-G (trenbolone acetate and estradiol)
Revalor-G is an implant containing 40 mg of trenbolone acetate and 8 mg estradiol. It is intended for use in weaned pasture steers and heifers. Revalor-G uses a lower hormone dosage, designed for stocker cattle on pasture. Each implant consists of two small yellow pellets. Ten implants are enclosed in each cartridge.

2 x 10 | 10 x 10

A withdrawal period has not been established for Ralgro, Revalor and Finaplix in pre-ruminating calves. Do not use in calves to be processed for veal. For complete information, refer to the product label.
Internal parasite control is the cornerstone of an effective animal health program. Powered by fenbendazole, Safe-Guard® (fenbendazole) and Panacur® (fenbendazole) work differently than macrocyclic lactones, which have resistance issues due to overuse. Safe and proven to work fast, they go straight to the gut, killing the worms where they live, ultimately reducing pasture contamination. Available in drench, paste, and a wide variety of non-handling formulations. The non-handling forms provide all the benefits of an effective deworming without all the labor, handling and stress.


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. 10 liters deworms 434,780 lb. of cattle. (2.3mL/100 lb. of cattle).

10 Liter | Liter | Gallon

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.).

25 lb. block

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

25 lb. block

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.

290 g paste cartridge
Additional non-handling dewormers featuring Safe-Guard are available through authorized feed manufacturers and distributors in multiple forms and concentrations, including: pellets, meal, mineral and range cubes. Formulations and concentrations may vary by company so follow label directions for use. Contact your animal health representative for more information.

Consult your local veterinarian for assistance in the diagnosis, treatment and control of parasitism.

1 Safe-Guard drench and paste:

RESIDUE WARNING: Cattle must not be slaughtered within eight 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.

2 Safe-Guard EN-PRO-AL Molasses Block:

RESIDUE WARNING: Cattle must not be slaughtered within 11 days following last treatment. A withdrawal period has not been established for this product in preruminating calves. Do not use in calves to be processed for veal.

3 Safe-Guard Protein Block:

RESIDUE WARNING: Cattle must not be slaughtered within 16 days following last treatment. A withdrawal period has not been established for this product in preruminating calves. Do not use in calves to be processed for veal.

4 Safe-Guard mineral, feed through products and liquid feed:

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.

*Data on file

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 and nodular worms). 1 Read full product insert on page 52.

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External parasites – such as lice, mites and flies – present a year-round challenge to cattle and handlers. By controlling these nuisances, producers can increase cattle performance and well-being, and also help reduce the spread of diseases. Since external parasites can vary from operation to operation and by geography, Merck Animal Health provides a variety of external parasite control products to adapt to the needs of the location.

**PARASITE CONTROL — EXTERNAL**

**Ultra Saber™ Pour-On**
1% LambdaCyhalothrin, 5% Piperonyl Butoxide
Provides fast, long-lasting control of horn flies and lice. Applied in a convenient low-dose application – 10 mL for animals 600 lb. or less, and 15 mL for animals more than 600 lb.

Gallon | 900 mL

**Saber™ Pour-On**
1% LambdaCyhalothrin
Provides fast, long-lasting control of horn flies and lice. Applied in a convenient low-dose application – 10 mL for animals 600 lb. or less, and 15 mL for animals more than 600 lb.

Gallon | 900 mL

**Synergized DeLice® Pour-On Insecticide**
1% Permethrin, 1% Piperonyl Butoxide
Controls lice, horn flies and face flies on lactating and non-lactating cattle. Also approved for use in backrubbers.

Gallon

**Ultra Boss® Pour-On Insecticide**
5% 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.

Gallon | Quart
**Boss® Pour-On Insecticide**
5% Permethrin
Pour-on horn fly, face fly and lice control for lactating and non-lactating cattle. Low-volume, no pre-slaughter withdrawal, no milk discard. Apply 3 mL per 100 lb. body weight, up to the 30 mL maximum application limit.

**Gallon | Quart**

**Grenade® ER**
9.7% Lambda-cyhalothrin
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.

**8 oz.**

**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.

**Quart | Pint**

**Double Barrel® VP**
14% Pirimiphos Methyl and 6.8% Lambda-cyhalothrin
Two active ingredients minimize development of resistance. Up to five months control of horn flies and face flies on non-lactating cattle and calves.

20 ear tags per box

**Saber™ Extra Insecticide Ear Tags**
10% Lambda-cyhalothrin and 13% Piperonyl Butoxide
For up to five months control of horn flies and up to four months control of face flies on beef cattle and calves.

20 ear tags per box

**Dominator® Insecticide Ear Tags**
20% Pirimiphos Methyl
Controls horn flies for up to five months (including synthetic pyrethroid-resistant horn flies) and as an aid in the control of face flies on beef. Twenty ear tags per box cattle and calves.

20 ear tags per box

**PARASITE CONTROL - EXTERNAL CONT.**
MERCK ANIMAL HEALTH PROGRAMS

Merck Animal Health is here for you. Your livelihood is our responsibility. You take great care of your animals, so we want to help you. From training modules and industry articles to new technologies and management tips, we have resources for every producer.

Working in collaboration with industry experts, veterinarians and producers, we’ve developed key programs with information most valuable to our customers. These resources are ever-changing as we continue to work to support the advancement of the dairy and cattle industries.

MERCK ANIMAL HEALTH PROGRAMS

BEEF MARKET CENTRAL®

Proudly brought to you by Merck Animal Health in coordination with DVAuction and Drovers, Beef Market Central aims to make every cattle producer’s job a little easier by bringing the latest in cattle market information through one real-time dashboard. For more information, visit BeefMarketCentral.com or download the app for Apple or Android mobile devices.

DAIRY CARE 365®

For dairy producers, calf ranchers, farm employees, veterinarians and every stakeholder involved in the care and well-being of dairy animals, Dairy Care 365 is a network of support designed to provide relevant resources for empowering a culture of care on dairies. To learn more and implement the program into your operation, visit DairyCare365.com.

FE CAL EGG COUNT REDUCTION TEST (FECRT)

The Fecal Egg Count Reduction Test (FECRT) is a standardized diagnostic tool to determine if there is potential parasite resistance with your current dewormer. For more information, talk to your Merck Animal Health representative.

PRIMEVAC™

Proper preconditioning improves the efficiency and performance of dairy and beef calves. The first program of its kind to offer optional veterinarian certification (or producer affidavit), PrimeVAC protects from respiratory viruses, clostridial bacteria and internal parasites, giving you a marketing edge and the tools you need to make the most out of your cattle investment. For more information, talk to your Merck Animal Health representative.

RESPONSIBLE BEEF

Merck Animal Health has a deep-seated respect for those they serve in America’s cattle industry. Your livelihood is a responsibility we take very seriously, and that responsibility is what drives us to deliver world-class research, product innovations and superior technical service to today’s cattle community. Responsible Beef features stories that focus on your community, land, cattle and business. To learn more, visit ResponsibleBeef.com.

THE BEST DEFENSE™

As the saying goes, the best defense is a good offense. That’s why using Merck Animal Health vaccines makes such good business sense. Our line of cattle health products gives you the power to get in front of disease before it strikes, tackling it before it gains ground. Instead of treating disease, you can keep producing healthy, profitable cattle. To learn more, visit The-Best-Defense.com.

WHISPER® VETERINARY STETHOSCOPE

Many cattle with BRD are misdiagnosed and left untreated, thereby reducing performance in those cattle. Conversely, many calves without BRD are unnecessarily administered an antimicrobial product, increasing treatment costs. The Whisper Veterinary Stethoscope is a simple, noninvasive system used to quickly assess lung health, thereby providing additional information to producers to select an appropriate treatment regimen and provide better care for their animals. To learn more, visit WhisperCattle.com.

PERFORMANCE EVALUATION PROGRAM (PEP)

The Performance Evaluation Program (PEP) is a multi-point assessment of proper placement of Revalor and Finaplix implants conducted by the Merck Animal Health technical services team in coordination with sales representatives. To evaluate the placement of the Revalor and Finaplix implants in your feedyard cattle, contact your Merck Animal Health representative.
**INDICATIONS**

**Nuflor Injectable Solution** is indicated for the treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida, and Histophilus somni.

**RESFLOR GOLD Injectable Solution** is indicated for the treatment of bovine respiratory disease (BRD) associated with Mannheimia haemolytica, Pasteurella multocida, and Histophilus somni.

**PRODUCT INFORMATION**

**For intramammary and subcutaneous use in bovine and non-lactating dairy cattle only.**

**WARNING:** Not for use in dairy cattle 20 months of age or older or in calves to be processed for veal. **WARNING:** Not for use in animals that have shown hypersensitivity to florfenicol in the past.

**PRECAUTIONS:**

**CAUTION:** See page 31 for animal vaccination required at the site of injection and understanding that bruising in the area may increase with the needle size.

**NOTE:** A 1X, 3X, and 5X (20, 60, and 100 mg/kg) safety study was conducted in cattle for 28 days of treatment (600 mg/kg body weight to 1800 mg/kg body weight). Clinical improvement should be evident in most treated cases at the 1X dose rate of 40 mg/kg body weight (300 mg/mL). Do not administer more than 10 mL at each site. The injection should be given only at the neck. Injection sites other than the neck should be vaccinated within 24 hours of initiation of treatment. If a positive test result occurs, do not administer more than two more doses of the same product to the animal. The test should be repeated to confirm the positive result.

**PRINCIPAL PHARMACOLOGICAL ACTIONS:**

Florfenicol is a synthetic, broad-spectrum antibiotic active against many Gram-negative and Gram-positive bacterial strains. It is generally considered a bactericidal drug in vivo. Florfenicol exhibits significant activity against certain bacterial species. In vitro, Florfenicol was bactericidal at concentrations of 0.19 µg/mL against the bovine respiratory disease (BRD) pathogens Mannheimia haemolytica and Histophilus somni and significant bacteriostatic activity against strains of Mannheimia haemolytica and Histophilus somni. Florfenicol has been determined to be effective against various Mycobacterium species for up to 28 days.

**CLINICAL PHARMACOLOGY:**

**Treatment of Bovine Respiratory Disease**

**Table 1. Mean 24-h pharmacokinetic parameters for Florfenicol in cattle after a single intramuscular injection of RESFLOR GOLD® (Florfenicol doses of 40 mg/kg)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>RESFLOR GOLD®</th>
<th>Nuflor Injectable Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AUC (µg/mL min)</strong></td>
<td>38.8 ± 9.3</td>
<td>8.3 ± 2.0</td>
</tr>
<tr>
<td><strong>Cmax (µg/mL)</strong></td>
<td>0.19 ± 0.04</td>
<td>0.08 ± 0.02</td>
</tr>
<tr>
<td><strong>t1/2 (h)</strong></td>
<td>16.9 ± 4.5</td>
<td>10.4 ± 3.1</td>
</tr>
<tr>
<td><strong>Bioavailability (%)</strong></td>
<td>60.4 ± 11.5</td>
<td>52.0 ± 12.9</td>
</tr>
</tbody>
</table>

Florfenicol is a synthetic, broad-spectrum antibiotic active against many Gram-negative and Gram-positive bacterial strains. It is generally considered a bactericidal drug in vivo. Florfenicol exhibits significant activity against certain bacterial species. In vitro, Florfenicol was bactericidal at concentrations of 0.19 µg/mL against the bovine respiratory disease (BRD) pathogens Mannheimia haemolytica and Histophilus somni and significant bacteriostatic activity against strains of Mannheimia haemolytica and Histophilus somni. Florfenicol has been determined to be effective against various Mycobacterium species for up to 28 days.

**Table 2. Mean 24-h pharmacokinetic parameters for Florfenicol in cattle after a single intramuscular injection of RESFLOR GOLD® (Florfenicol doses of 2.2 mg/kg)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>RESFLOR GOLD®</th>
<th>Nuflor Injectable Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AUC (µg/mL min)</strong></td>
<td>5.9 ± 0.5</td>
<td>0.4 ± 0.1</td>
</tr>
<tr>
<td><strong>Cmax (µg/mL)</strong></td>
<td>0.04 ± 0.01</td>
<td>0.01 ± 0.00</td>
</tr>
<tr>
<td><strong>t1/2 (h)</strong></td>
<td>12.5 ± 2.5</td>
<td>8.4 ± 2.2</td>
</tr>
<tr>
<td><strong>Bioavailability (%)</strong></td>
<td>29.2 ± 11.2</td>
<td>22.0 ± 12.9</td>
</tr>
</tbody>
</table>

**REFERENCES:**


Flunixin persists in inflammatory tissues and is associated with bovine respiratory disease and endotoxemia. Hypersensitivity to flunixin meglumine.

In healthy cattle, total body clearance has been reported to range from 2297 to 782 mL/kg. Flunixin is distributed into body tissues (Vss predictions range from 297 to 782 mL/kg). In healthy human volunteers, the plasma terminal half-life has been shown to vary from 3.14 to 8.12 hours.2-5

Clinical disposition

The recommended dose for control of pain associated with equine surgery is 0.5 mg of body weight daily. In select cases, a dose of 1 mg of body weight may be used. The drug is given by intramuscular injection, and the dosage interval is 12 hours. The total daily dose should not exceed 2 mg per 100 lb of body weight, and maximum single intra muscular injection should not exceed 2.2 mg per 100 lb of body weight.

Safety

Animal use

Horses intolerant to flunixin intravenously administered can show signs of anaphylactic reaction. Efficacy has been demonstrated in horses with a variety of musculoskeletal disorders, including pain associated with arthritis, synovitis, and synovial effusion. Intraarticular administration is recommended for prompt relief. Clinical studies also demonstrated that 1% of horses receiving flunixin displayed signs of anaphylactic reaction.

Cattle

The terminal half-life has been shown to vary from 3.14 to 8.12 hours.2-5 The drug is generally well tolerated by cattle. Clinical disposition

Many of the reported clinical signs are dose-related. The most common signs are seen in cattle. In general, the lower the dose, the fewer and milder the signs are.

Cattle

The recommended dose for control of pain is 2 mg of body weight daily, and the dosage interval is 12 hours. The total daily dose should not exceed 20 mg of body weight, and the maximum single injection should not exceed 2.2 mg of body weight. In cases of severe pain, the dose may be repeated at 12-hour intervals for a total of 3 days. The dose should be repeated at 24-hour intervals in cattle with a history of sensitivity reactions.

The recommended dose for control of pain associated with equine surgery is 0.5 mg of body weight daily. The drug is given by intramuscular injection, and the dosage interval is 12 hours. The total daily dose should not exceed 2 mg per 100 lb of body weight, and maximum single injection should not exceed 2.2 mg per 100 lb of body weight.

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Infusión intramamaria

sodium cloxacillin

Intramammary Infusion

Staphylococcus aureus
Streptococcus agalactiae

For testing the effectiveness of Dariclox in milk, follow the Kirby-Bauer antibiotic susceptibility disks, is a quantitative method that may be suitable for intramuscular or intravenous administration according to the indication.

It had no adverse effects on heart rate, blood pressure or EKG, when administered to unanesthetized cows administered a placebo injection.

The effectiveness of Fertagyl (gonadorelin) for use with Estrumate (cloprostenol injection) to induce abortion decreases beyond the fifth month of gestation while the risk of embryonic loss increases.

The recommended intramuscular or intravenous dosage of Fertagyl is 86 mcg gonadorelin (2 mIU human chorionic gonadotropin).

LH to cause ovulation and luteinization.

Estrumate causes functional and morphological regression of the corpus luteum is present for only 11 to 12 days

Damage to the reproductive tract at calving or postpartum retention of the placenta conditions associated with prolonged luteal function.

There is no effect on fertility following the single or double dosage regimen when treated to obtain maximum response to the single injection. However, not all cycling estrus is expected to occur 2 to 5 days following injection, at which time animals may be treated to obtain maximum response to the single injection. However, not all cycling.

The recommended dosage of Fertagyl is 0.05 mg/kg body weight by the intramuscular or intravenous route for the treatment of Dichelostomum Types I, II, and III.

CONTRAINDICATIONS:

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Many animals will come into estrus following the first injection; these animals can be treated to obtain maximum response to the single injection. However, not all cycling.

The recommended dosage of Fertagyl is 0.05 mg/kg body weight by the intramuscular or intravenous route for the treatment of Dichelostomum Types I, II, and III.

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**BO-SE® (SELENIUM, VITAMIN E) Injection**

**Descripción**

Para el tratamiento de la disminución de la velocidad del ganado, lo que se puede observar en las condiciones de una región. Además, BO-SE® puede ser utilizado en la preparación de alimento complementario para las aves, lo que permite la adición de EDTA para estabilizar el antioxidante. Es un complemento alimenticio que mejora el crecimiento y la salud general del animal. **BO-SE®** es el nombre comercial de este producto.

**PRECAUCIONES**

En casos de tratamiento con BO-SE®, se deben seguir las instrucciones proporcionadas por el fabricante. Es importante tener en cuenta que el uso de este producto puede tener efectos adversos en el ganado.

**Contenido**

BO-SE® contiene vitamina E y ácido selenico, ambos compuestos que se utilizan en la alimentación del ganado para promover su salud y bienestar.

**Tildipirosin**

Tildipirosin es el nombre común de este fármaco, que es utilizado para el tratamiento de enfermedades respiratorias en bovinos. Se ha demostrado que es eficaz en la prevención y control de la broncopatía respiratoria (BRD) en bovinos.

**Efectos adversos**

Los efectos adversos conocidos de Tildipirosin incluyen reacciones alérgicas, como erupciones cutáneas y dificultad para respirar. En caso de aparición de síntomas, se sugiere consultar a un veterinario.

**Indicaciones**

Tildipirosin se utiliza para el tratamiento de enfermedades respiratorias en bovinos, incluyendo las causadas por Histophilus somni y Mannheimia haemolytica.

**Usos**

Se recomienda el uso de Tildipirosin en bovinos para el tratamiento de enfermedades respiratorias, incluyendo la broncopatía respiratoria (BRD). El producto se puede administrar por vía intramuscular en bovinos.

**PRECAUCIONES**

Es importante tener en cuenta que el uso de Tildipirosin puede tener efectos adversos en el ganado. Es necesario seguir las instrucciones del fabricante y consultar a un veterinario en caso de aparición de síntomas adversos.

**TABLA 4**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Equipo</th>
<th>Presencia (%)</th>
<th>Control (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BRD</strong></td>
<td>2007</td>
<td>424</td>
<td>273</td>
</tr>
<tr>
<td><strong>BRD</strong></td>
<td>2008</td>
<td>284</td>
<td>273</td>
</tr>
<tr>
<td><strong>BRD</strong></td>
<td>2007 Treatment</td>
<td>284</td>
<td>273</td>
</tr>
</tbody>
</table>

*Las variaciones en los datos pueden ser causadas por factores externos.*

**Notas**

- BO-SE® es el nombre comercial de este producto.
- El contenido de este documento es correcto en el momento de su creación y puede estar sujeto a cambios posteriores.
- La información recogida en este documento es destinada a profesionales de la salud y no se debe utilizar para fines no relacionados.

**Revisión**

La revisión de este documento se realizará cada año con el objetivo de garantizar su actualización y precisión.