

2020

RETAIL PRODUCT GUIDE










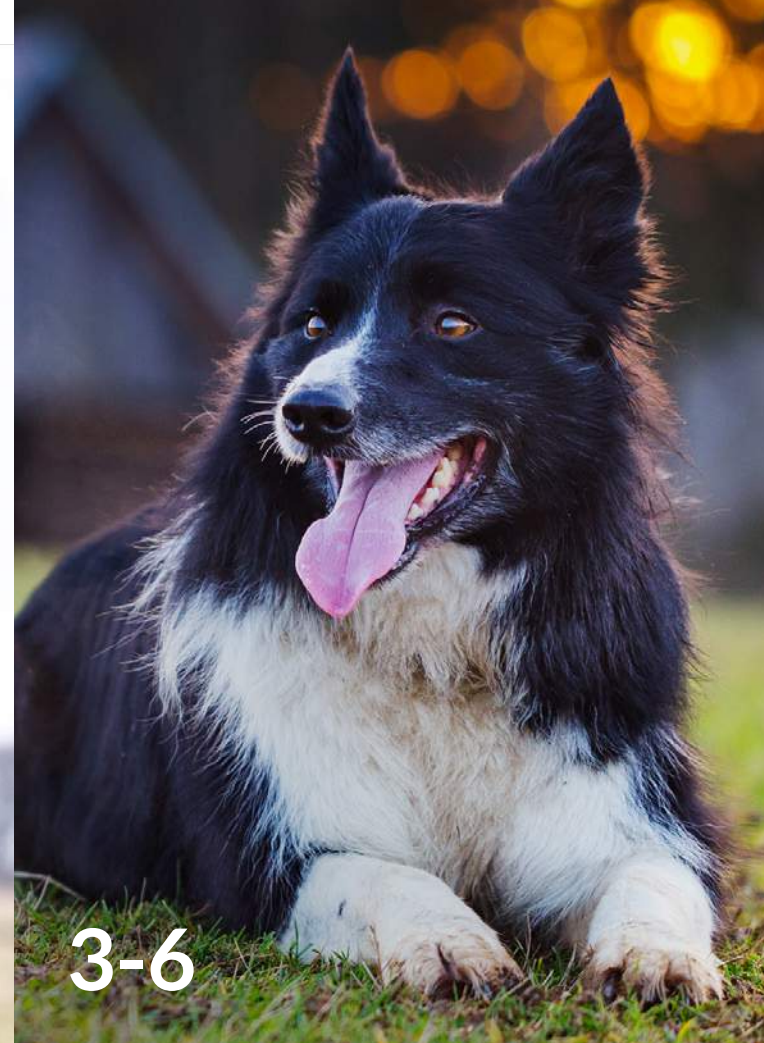
The Science of
Healthier Animals

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For over 25 years, Merck Animal Health has been providing the brands you trust for predictable, safe, and effective vaccinations, parasite elimination, pest control and more.

LEGEND

Dog		Sheep	
Cat		Goat	
Equine		Swine	
Cattle			



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For dogs who are happiest when they're outside, there's SAFE-GUARD—a proven effective way to keep them protected on the inside. SAFE-GUARD treats the four major intestinal worm types common to the outdoor dog.



Safe-Guard® (fenbendazole) Canine Dewormer treats six species of the four major intestinal worm types common to the outdoor dog with only one compound, fenbendazole. Dog owners can treat more with less, minimizing their dog's chemical exposure.

Safe-Guard is safe for puppies six weeks of age or older and pregnant females as well as adult dogs of all breeds. So it's never too early or too late to start.

www.safe-guard-for-dogs.com



Safe-Guard® Canine Dewormer 1 gram

Fenbendazole 22.2% canine dewormer.

1 gm Single box UIN: 034906
 Display Carton (8 boxes) UPC: 021784470124
 UPC: 021784349062

Safe-Guard® Canine Dewormer 2 gram

Fenbendazole 22.2% canine dewormer.

2 gm Single Box UIN: 033576
 Display Box (8 boxes) UPC: 021784470223
 UPC: 021784423052

Safe-Guard® Canine Dewormer 4 gram

Fenbendazole 22.2% canine dewormer.

4 gm Single Box UIN: 040694
 Display Box (8 boxes) UPC: 021784470421
 UPC: 021784421652

For the treatment and control of Roundworms (*Toxocara canis*, *Toxascaris leonina*), Hookworms (*Ancylostoma caninum*, *Uncinaria stenocephala*), Tapeworms (*Taenia pisiformis*), and Whipworms (*Trichuris vulpis*)

CANINE DEWORMER COMPARISON CHART

BRAND ▶	safe-guard® (fenbendazole)	Quad Dewormer Chewable Tablets for Dogs	Triple Wormer D-Worm Triple Wormer® WormX Plus®	D-Worm™ Tablets Nemex®-2 WormX®	D-Worm™	Tapeworm Dewormer
COMPOUND ▶	FENBENDAZOLE	Praziquantel / Pyrantel Pamoate / Febantel	Pyrantel Pamoate / Praziquantel	Pyrantel Pamoate	Piperazine	Praziquantel
PARASITE	ROUNDWORM	✓	✓	✓	✓	
	HOOKWORM	✓	✓	✓		
	TAENIA TAPEWORM	✓	✓	✓		✓
	WHIPWORM	✓	✓			

All trademarks are property of their respective owners.

IMPORTANT SAFETY INFORMATION: Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

Approximately 1% of dogs had vomiting associated with the use of this product. Safe-Guard® Canine Dewormer has no known drug interactions and is an ideal complement to monthly heartworm prevention products, which may not protect against all four major types of intestinal worms. For more information, visit safe-guard-for-dogs.com

Fleas are the most common external parasite found on pets¹ and can cause itching, hair loss or flea allergy dermatitis. That's why Activyl® flea killing power is so important for dogs and cats.

activyl

Activyl® is available in two forms—a once a month topical treatment for dogs and cats (indoxacarb) and a protector band for dogs (deltamethrin). Both options are water resistant and fast acting, and the collar option is adjustable to fit dogs of all sizes.

us.activyl.com



ACTIVYL® for Dogs

The once-a-month topical flea treatment for dogs and puppies over 4 lbs and 8 weeks of age and older.

Toy Dogs & Puppies Single box Display Carton (3 pack)	UIN: 158689 UPC: 8713184153104 UPC: 8713184153111
Toy Dogs & Puppies Single box Display Carton (6 pack)	UIN: 104482 UPC: 8713184108067 UPC: 8713184108074
Smalls Dogs & Puppies Single box Display Carton (3 pack)	UIN: 155911 UPC: 8713184153029 UPC: 8713184153036
Small Dogs & Puppies Single box Display Carton (6 pack)	UIN: 112173 UPC: 8713184108111 UPC: 8713184108104
Medium Dogs & Puppies Single box Display Carton (3 pack)	UIN: 152814 UPC: 8713184153043 UPC: 8713184153050
Medium Dogs & Puppies Single box Display Carton (6 pack)	UIN: 107502 UPC: 8713184108135 UPC: 8713184108128
Large Dogs & Puppies Single box Display Carton (3 pack)	UIN: 154523 UPC: 8713184153067 UPC: 8713184153074
Large Dogs & Puppies Single box Display Carton (6 pack)	UIN: 116338 UPC: 8713184108159 UPC: 8713184108142
XLarge Dogs & Puppies Single box Display Carton (3 pack)	UIN: 156102 UPC: 8713184153081 UPC: 8713184153098
XLarge Dogs & Puppies Single box Display Carton (3 pack)	UIN: 115627 UPC: 8713184108173 UPC: 8713184108166

ACTIVYL® for Cats

Once-a-month topical flea treatment for cats and kittens 8 weeks of age or older and 2 lbs.

Cats & Kittens (2-9lbs) Single box Display Carton (3 pack)	UIN: 153616 UPC: 8713184153128 UPC: 8713184153135
Cats & Kittens (2-9lbs) Single box Display Carton (6 pack)	UIN: 044973 UPC: 8713184108197 UPC: 8713184108180
Cats (>9lbs) Single box Display Carton (3 pack)	UIN: 152858 UPC: 8713184153142 UPC: 8713184153159
Cats (>9lbs) Single box Display Carton (6 pack)	UIN: 118926 UPC: 8713184108210 UPC: 8713184108203



ACTIVYL® Protector Band for Dogs

Provides up to 6 months protection against fleas and ticks.

One size fits all 1 Collar Display Carton (6 boxes)	UIN: 188779 UPC: 8713184157881 UPC: 8713184157898
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Merck Animal Health offers innovative products to treat and prevent disease. Anchored by brands that veterinarians and owners have trusted for decades, our product portfolio is one of the most extensive in the industry, delivering millions of doses of preventive and therapeutic care to improve the health of the horse.



Deworming your horse is easier when you can choose the delivery method that works best for you and your horse. Fenbendazole is the only horse dewormer that comes in so many forms and sizes, yet is effective against the most common intestinal parasites of the horse.



Panacur® (fenbendazole) Paste

Panacur (fenbendazole) Paste 10% is indicated for the control of large strongyles (*Strongylus edentatus*, *S. equinus*, *S. vulgaris*), encysted early third stage (hypobiotic), late third stage and fourth stage cyathostome larvae, small strongyles, pinworms (*Oxyuris equi*), ascarids (*Parascaris equorum*), and arteritis caused by fourth stage larvae of *Strongylus vulgaris* in horses.

25 gm syringe
12x25 gm syringe

UIN: 069273
UPC: 021784471121
UPC: 021784047111



Panacur® (fenbendazole) POWERPAC

Panacur (fenbendazole) Paste 10% is indicated for the control of large strongyles (*Strongylus edentatus*, *S. equinus*, *S. vulgaris*), encysted early third stage (hypobiotic), late third stage and fourth stage cyathostome larvae, small strongyles, pinworms (*Oxyuris equi*), ascarids (*Parascaris equorum*), and arteritis caused by fourth stage larvae of *Strongylus vulgaris* in horses.

Panacur (fenbendazole) Paste 10% Equine Dewormer is supplied in 57 gm, 5 per carton, syringes.

5x57 gm syringe

UIN: 114001
UPC: 021784471572



Safe-Guard® (fenbendazole) Paste

Safe-Guard (fenbendazole) Paste 10% is indicated for the control of large strongyles (*Strongylus edentatus*, *S. equinus*, *S. vulgaris*), encysted early third stage (hypobiotic), late third stage and fourth stage cyathostome larvae, small strongyles, pinworms (*Oxyuris equi*), ascarids (*Parascaris equorum*), and arteritis caused by fourth stage larvae of *Strongylus vulgaris* in horses.

25 gm syringe

UPC: 021784471251

12 x 25 gm syringe

UIN: 064832
UPC: 021784047128

36 x 25 gm syringe

UIN: 003468
UPC: 021784471367

92 gm syringe

UIN: 066958
UPC: 021784471923



Safe-Guard® (fenbendazole) Equi-bits®

Safe-Guard (fenbendazole) Equi-bits is indicated for the control of large strongyles (*Strongylus edentatus*, *S. equinus*, *S. vulgaris*, *Triodontophorus spp.*), small strongyles (*Cyathostomum spp.*, *Cylicocyclus spp.*, *Cylicostephanus spp.*), pinworms (*Oxyuris equi*), and ascarids (*Parascaris equorum*).

1.25 lb bag

UIN: 004681
UPC: 021784046817

IMPORTANT SAFETY INFORMATION: Consult your local veterinarian for assistance in the diagnosis, treatment and control of parasitism. Do not use in horses intended for human consumption. When using Panacur® (fenbendazole) Paste 10%, Safe-Guard® (fenbendazole) Paste 10%, or Safe-Guard® (fenbendazole) Equi-bits® concomitantly with trichlorfon, refer to the manufacturer's labels for use and cautions for trichlorfon.

The Prestige® line of equine vaccines delivers industry-leading technology and now includes inactivated influenza-containing vaccines with the most current influenza strains available.

No other company provides a broader range of influenza protection than Merck Animal Health.

PRESTIGE®



Delivering protection that matters to you and your customers.

Only PRESTIGE® vaccines feature Florida '13—a current, highly pathogenic strain isolated through Merck Animal Health's Respiratory Biosurveillance Program.

Florida '13 is the most current Clade 1 strain available in a U.S. commercial inactivated vaccine.²



UPDATED INFLUENZA STRAINS INCLUDE:

✓ **Florida '13 Clade 1:**

Based on a highly pathogenic isolate from the 2013 Ocala, Fla. influenza outbreak that impacted hundreds of horses. Florida '13 was exclusively identified and isolated through the Merck Animal Health Biosurveillance Program.



✓ **Richmond '07 Clade 2:**

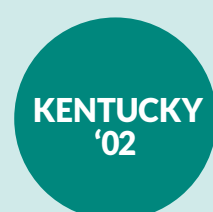
Meets World Organisation for Animal Health (OIE) and American Association of Equine Practitioners (AAEP) guidelines for Clade 2 influenza protection.



IN ADDITION TO:

✓ **Kentucky '02:**

Influenza strain maintained from previous vaccine line.



A vaccine can never be too safe

Prestige® vaccines feature our proprietary Antigen Purification System™ (APS) and the exclusive Havlogen® Adjuvant

The result is a line of killed virus vaccines that are highly efficacious with an exceptional safety profile—shown to be 98% reaction-free in field safety trials³

“This is the Science of Healthier Animals working for you—identifying threats and delivering advanced vaccine solutions to improve the lives of horses.”

²Comparison of U.S. commercial inactivated influenza vaccine strains, per respective manufacturer's labels. October 2019.
³Data on file. Merck Animal Health.

Demand the Prestige® Vaccine Line for its Core to Risk-Based Spectrum of Protection.

For years, horse owners have trusted our safe and effective line of equine vaccines as part of their veterinarians' recommended total healthcare program for their horses. Our products earn high marks for consistent quality, effectiveness and reliability.



NEW FLU STRAINS

PRESTIGE® 5
ENCEPHALOMYELITIS - RHINOPNEUMONITIS - INFLUENZA VACCINE

EASTERN AND WESTERN, KILLED VIRUS
TETANUS TOXOID

This product has been shown to be effective for the vaccination of healthy horses six months of age or older against Eastern and Western encephalomyelitis viruses, EIV, EHV-1, EHV-4 and tetanus. Duration of immunity has been shown at six months for EIV. Duration of immunity for Eastern and Western Encephalomyelitis Viruses, EHV-1, EHV-4 and tetanus has not been established. For more information regarding safety and efficacy data, go to productdata.aphis.usda.gov. This product has been shown to be effective against virus shedding of EIV and EHV-1.

1 mL Syringe UIN: 036486
10 x 1 mL Syringe UPC: 662858199949
1 x 10 mL Bottle UPC: 662858199956
UIN: 036595
UPC: 662858199925



NEW FLU STRAINS

PRESTIGE® 4
ENCEPHALOMYELITIS - INFLUENZA VACCINE

EASTERN AND WESTERN, KILLED VIRUS
TETANUS TOXOID

This product has been shown to be effective for the vaccination of healthy horses six months of age or older against Eastern and Western encephalomyelitis viruses, EIV and tetanus. Duration of immunity has been shown at six months for EIV. Duration of immunity has not been established for Eastern and Western Encephalomyelitis and Tetanus. For more information regarding safety and efficacy data, go to productdata.aphis.usda.gov. This product has been shown to be effective against virus shedding of EIV.

1 mL Syringe UIN: 035127
10 x 1 mL Syringe UPC: 662858903249
1 x 10 mL Bottle UPC: 662858903256
UIN: 031685
UPC: 662858903225



PRESTIGE® 3 + WNV
ENCEPHALOMYELITIS - WEST NILE VIRUS VACCINE

EASTERN & WESTERN, KILLED VIRUS, KILLED FLAVIVIRUS CHIMERA
TETANUS TOXOID

This product has been shown to be effective for the vaccination of healthy horses six months of age or older against Eastern and Western encephalomyelitis viruses, tetanus and West Nile Virus. Duration of immunity has not been established. For more information regarding safety and efficacy data, go to productdata.aphis.usda.gov. This product has been shown to be effective against encephalitis and viremia caused by West Nile Virus.

1 mL Syringe UIN: 155638
10 x 1 mL Syringe UPC: 662858966855
1 x 10 mL Bottle UPC: 662858966817
UIN: 077462
UPC: 662858966800



PRESTIGE® Tetanus
TETANUS TOXOID

This product has been shown to be effective for the vaccination of healthy horses, cattle, swine and sheep six months of age or older against tetanus.

1 mL Syringe UIN: 069151
10 x 1 mL Syringe UPC: 662858478693
UPC: 662858506686



PRESTIGE® Prodigy®
EQUINE RHINOPNEUMONITIS VACCINE

KILLED VIRUS

This product has been shown to be effective for the vaccination of healthy horses six months of age or older against abortion and respiratory disease caused by EHV-1. Duration of immunity has not been established. For more information regarding safety and efficacy data, go to productdata.aphis.usda.gov.

2 mL Syringe UIN: 069141
10 x 2 mL Syringe UPC: 662858461794
1 x 20 mL Bottle UPC: 662858506655
UIN: 069142
UPC: 662858461190

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PRESTIGE® 3
ENCEPHALOMYELITIS VACCINE

EASTERN AND WESTERN, KILLED VIRUS
TETANUS TOXOID

This product has been shown to be effective for the vaccination of healthy horses six months of age or older against Eastern and Western encephalomyelitis viruses and tetanus. Duration of immunity has not been established. For more information regarding safety and efficacy data, go to productdata.aphis.usda.gov.

1 mL Syringe UIN: 069092
10 x 1 mL Syringe UPC: 662858466997
1 x 10 mL Bottle UPC: 662858506686
UIN: 069093
UPC: 662858467093



NEW FLU STRAINS

PRESTIGE® 2
EQUINE RHINOPNEUMONITIS - INFLUENZA VACCINE

KILLED VIRUS

This product has been shown to be effective for the vaccination of healthy horses six months of age or older against EIV, EHV-1 and EHV-4. Duration of immunity has been shown at six months for EIV. Duration of immunity for EHV-1 and EHV-4 has not been established. For more information regarding safety and efficacy data, go to productdata.aphis.usda.gov. This product has been shown to be effective against virus shedding of EIV and EHV-1.

1 mL Syringe UIN: 030791
10 x 1 mL Syringe UPC: 662858099843
1 x 10 mL Bottle UPC: 662858099850
UIN: 030872
UPC: 662858099829



PRESTIGE® WNV
WEST NILE VIRUS VACCINE

KILLED FLAVIVIRUS CHIMERA

This product has been shown to be effective for the vaccination of healthy horses six months of age or older against West Nile Virus. Duration of immunity has not been established. For more information regarding safety and efficacy data, go to productdata.aphis.usda.gov. This product has been shown to be effective against encephalitis and viremia caused by West Nile Virus.

1 mL Syringe UIN: 108144
10 x 1 mL Syringe UPC: 662858968644
1 x 10 mL Bottle UPC: 662858968651
UIN: 111721
UPC: 662858968620

Merck Vaccine	Tetanus	WNV	EEE/WEE	Influenza	EHV 1&4	EHV-1 Abortion & Respiratory
Prestige® 5	●		●	●	●	
Prestige® 4	●		●	●		
Prestige® 3 + WNV	●	●	●			
Prestige® 3	●		●			
Prestige® 2				●	●	
Prestige® WNV		●				
Prestige® Tetanus	●					
Prestige® Prodigy®						●

Equine Vaccination Plan

RISK LEVEL	DISEASES OF CONCERN	MERCK ANIMAL HEALTH PRODUCT OPTIONS
Low Risk <ul style="list-style-type: none"> • Include Core Vaccines • Vaccinate annually prior to mosquito season.* • Evaluate booster needs based on geographic risks. 	<ul style="list-style-type: none"> • EEE • WEE • Tetanus • West Nile Virus • Rabies* 	PRESTIGE® 3 + WNV OR PRESTIGE® 3 AND PRESTIGE® WNV *Contact your veterinarian
High Risk <ul style="list-style-type: none"> • Include Core Vaccines and Risk-based Vaccines according to need. • Vaccinate annually prior to mosquito season.* • Evaluate booster needs based on geographic and activity/exposure risks. 	<ul style="list-style-type: none"> • EEE • WEE • Tetanus • West Nile Virus • Influenza • Rhino (EHV-1/4) • Rabies* 	PRESTIGE® 5 AND PRESTIGE® WNV OR PRESTIGE® 3 + WNV AND PRESTIGE® 2 *Contact your veterinarian
Breeding		
Pre-Breeding Be sure Core & Risk-based vaccines are up-to-date	See Disease of Concern for High Risk horses above	See Product Options for High Risk horses above
Pregnant Mare <ul style="list-style-type: none"> • Include a vaccine labeled as effective against abortion at 5, 7 and 9 months of pregnancy • Include Core & Risk-based vaccines 4-6 weeks prior to foaling to boost maternal antibodies. 	<ul style="list-style-type: none"> • EHV-1 which can cause abortions • See Diseases of Concern for High Risk horses above 	PRESTIGE® PRODIGY® See Product Options for High Risk horses above
Foal Vaccine needs and timing vary based on factors such as age, risk level and vaccination history of mare.	Core & Risk-based diseases as needed	Consult your veterinarian for a foal vaccination plan

<https://aaep.org/guidelines/vaccination-guidelines>

At Merck Animal Health, the science of healthier animals is our way of life. Our passion is boosting customers' potential by improving cattle health and well-being through innovative science-based solutions.

We take our commitment to meeting the distinct needs of our customers very seriously. That commitment is what drives us to deliver advanced research, product innovations and superior service.



Merck Animal Health Vaccines prevent diseases before they strike. That way, our customers can focus on producing healthy, profitable cattle.

All Vista® vaccines are labeled for use in pregnant cows and calves nursing pregnant cows provided the cows and heifers in the herd are vaccinated prior to breeding within the previous 12 months with Vista. Vista Once and Vista 5 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*.



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, Parainfluenza3 (PI3) and Bovine Respiratory Syncytial Virus (BRSV).

10 dose UIN: 042978
UPC: 662858905021

50 dose UIN: 006340
UPC: 662858905052

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, Parainfluenza3 (PI3) and Bovine Respiratory Syncytial Virus (BRSV). Also available in combination with the only avirulent-live culture protection against *Mannheimia haemolytica* and *Pasteurella multocida*.

10 dose UIN: 006331
UPC: 662858904529

50 dose UIN: 006332
UPC: 662858904550



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.

10 dose UIN: 117258
UPC: 662858906516

50 dose UIN: 109221
UPC: 662858906554

25x1 dose UIN: 156004
UPC: 662858918410



Nasalgen® IP

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

10 dose UIN: 149730
UPC: 662858022414

50 dose UIN: 065387
UPC: 662858224504



Once PMH® SQ

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

10 dose UIN: 006337
UPC: 662858905120

50 dose UIN: 006338
UPC: 662858905151



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, your customers will 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 customer's needs.



Vision® 7

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

10 dose	UIN: 069130 UPC: 662858219586
50 dose	UIN: 069131 UPC: 662858229585
250 dose	UIN: 069132 UPC: 662858239584



Vision® 7 Somnus

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*, *Cl. perfringens* Types C and D (Enterotoxemia), and *Haemophilus somnus*.

10 dose	UIN: 069105 UPC: 662858096026
50 dose	UIN: 069106 UPC: 662858023893
250 dose	UIN: 069107 UPC: 662858023992



Vision® 8

For use in healthy cattle and sheep as an aid in preventing disease caused by *Clostridium chauvoei* (Blackleg), *Cl. septicum* (Malignant edema), *Cl. haemolyticum* (Bacillary Hemoglobinuria (Red water)), *Cl. novyi* (Black disease), *Cl. sordellii* and *Cl. perfringens* Types C and D (Enterotoxemia).

10 dose	UIN: 069136 UPC: 662858095920
50 dose	UIN: 069137 UPC: 662858433296



Vision® 8 Somnus

For use in healthy cattle as an aid in prevention of disease caused by *Clostridium chauvoei*, *Cl. septicum*, *Cl. haemolyticum*, *Cl. novyi*, *Cl. sordellii*, *Cl. perfringens* Type C, *Cl. perfringens* Type D, and *Haemophilus somnus*.

10 dose	UIN: 069117 UPC: 662858096125
50 dose	UIN: 069118 UPC: 662858040197



Covexin® 8

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

10 dose	UIN: 067697 UPC: 662858676976
50 dose	UIN: 067696 UPC: 662858676969



Vision® CD-T

For use in healthy cattle, sheep and goats as an aid in preventing disease caused by *Clostridium perfringens* Types C and D (Enterotoxemia) and *Cl. tetani* (Tetanus).

50 dose	UIN: 069096 UPC: 662858012798
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Cavalry® 9

For vaccination of healthy cattle against diseases caused by *Cl. septicum*, *Cl. novyi* Type B, *Cl. haemolyticum*, *Cl. sordellii*, *Cl. tetani* and *Cl. perfringens* Types C and D.

10 dose	UIN: 067691 UPC: 662858676914
50 dose	UIN: 058246 UPC: 662858582468
125 dose	UIN: 067694 UPC: 662858676945



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	UIN: 065302 UPC: 662858180107
50 dose	UIN: 065307 UPC: 662858180503



Bovilis® Coronavirus

Recommended for use in healthy calves as an aid in the reduction of enteric disease caused by bovine coronavirus. Efficacy was demonstrated in calves 3 days of age and older, and safety has been demonstrated in calves 1 day of age and older.

10 dose	UIN: 151733 UPC: 662858526813
50 dose	UIN: 150408 UPC: 662858526820
25 x 1 dose	UIN: 156332 UPC: 662858526806

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

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 a herd with Piliguard can prevent infections and reduce the severity of infections when outbreaks occur. The Piliguard line includes a variety of formulations, so producers can find the option that fits their needs.



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	UIN: 065405 UPC: 662858031119
50 dose	UIN: 065406 UPC: 662858031157

Piliguard® Pinkeye-1 Trivalent

For use in healthy cattle to aid in the prevention 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	UIN: 065410 UPC: 662858029123
50 dose	UIN: 143130 UPC: 662858029147

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



Vista® 5 L5 SQ

For vaccination of healthy cows and heifers, using the only one-dose *Leptospira hardjo-bovis* protection in combination with five-way modified-live virus protection against Infectious Bovine Rhinotracheitis (IBR), Bovine Viral Diarrhea (BVD) Type 1 and Type 2, Parainfluenza3 (PI3) and Bovine Respiratory Syncytial Virus (BRSV).

10 dose	UIN: 006344 UPC: 662858904826
50 dose	UIN: 006345 UPC: 662858904857

Vista® 5 VL5 SQ

For vaccination of healthy cows, using five-way modified-live virus protection against Infectious Bovine Rhinotracheitis (IBR), Bovine Viral Diarrhea (BVD) Type 1 and Type 2, Parainfluenza3 (PI3) and Bovine Respiratory Syncytial Virus (BRSV). Features five-way *Leptospira* protection including *L. hardjo-bovis* urinary shedding and *Campylobacter fetus* (Vibriosis).

10 dose	UIN: 006341 UPC: 662858904925
50 dose	UIN: 006342 UPC: 662858904956



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	UIN: 069083 UPC: 662858097023
50 dose	UIN: 069084 UPC: 662858040593



L5 SQ

For use in vaccination of healthy cattle 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	UIN: 006362 UPC: 662858902952
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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	UIN: 006363 UPC: 662858902853
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Cattle Vaccination Plan

ACTIVITY	CATTLE TYPE	CATEGORY OF TREATMENT	MERCK ANIMAL HEALTH PRODUCT
Pre-Calving	Pregnant Cows	Scours	Guardian®
Calving	Calves	Respiratory	Once® PMH IN
First Working • Branding • Pre-weaning • Weaning If banding or castrating bull calves include Tetanus	Calves	Respiratory	Vista® Once SQ* *For use in calves 3 months of age or older
		Clostridial	Choose one: Vision® 7/8 OR Vision® 7/8 Somnus
		Clostridial + Tetanus	Choose one: Calvary® 9 OR Covexin® 8
		Pinkeye Spring only Booster or 1st Dose if not given at First Working	Choose one: Piliguard® Pinkeye-1 Trivalent OR 20/20 Vision® 7
Second Working 3–6 weeks later or at Weaning	Heifers/Steers	Respiratory Booster	Choose one: Vista® Once SQ* OR Vista® 5 SQ*
		Clostridial Booster	Choose one: Vision® 7/8 OR Vision® 7/8 Somnus
		Pinkeye Spring only Booster or 1st Dose if not given at First Working	Choose one: Piliguard® Pinkeye-1 Trivalent OR 20/20 Vision® 7
Pre-Breeding	Replacement Heifers/Cows	Respiratory + Lepto + Vibrio	Vista® 5 VL5 SQ*

***Modified Live Vaccines:** All Vista vaccines are labeled as being safe for use in pregnant heifers and cows or calves nursing pregnant cows provided the cows and heifers in the herd are vaccinated prior to breeding, within the previous 12 months, with any of the modified live IBR and BVD containing vaccine(s) in this product line. Read product label carefully. If cows have not previously been vaccinated with modified-live vaccines consult your veterinarian before use.

Healthy growing cattle are the key to success in any operation. Implants enable producers to maximize their cattle's weight gain by optimizing their available nutrition.



Revalor®-G WEANED STEER & HEIFER CALVES

(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. The combination of trenbolone acetate and estradiol allows Revalor-G to provide consistent weight gains across varying forage qualities and weather conditions. Each implant consists of two small yellow pellets, and 10 implants are enclosed in each cartridge.

2x10 dose UIN: 125191
UPC: 0217840811080 Implant Gun UIN: 155012
10x10 dose UIN: 126547
UPC: 00021784811002



Ralgro® SUCKLING STEER & HEIFER CALVES

(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 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 dose UIN: 067089
UPC: 5017363035728 Implant Gun UIN: 065481
UPC: 300615076019
10 x 24 dose UIN: 067110
UPC: 5017363035711

A withdrawal period has not been established for Ralgro and Revalor in pre-ruminating calves. Do not use in calves to be processed for veal. For complete information, refer to the product label.

EXTERNAL PARASITE CONTROL

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 wellbeing, 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.



Ultra Saber™ Pour-On Insecticide

1% LAMBDA-CYHALOTHRIN, 5% PIPERONYL BUTOXIDE

Pour on insecticide for beef cattle and calves. 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 over 600 lb.

900 mL UIN: 055427
UPC: 300615478011 Pour-On Gun UIN: 067630
UPC: 021784067638
Gallon UIN: 055421
UPC: 300615478028



Ultra Boss® Pour-On Insecticide

5% PERMETHRIN AND 5% PIPERONYL BUTOXIDE

Pour-on insecticide for beef, dairy, and lactating cattle; sheep, goats and horses. Low-volume dosage reduces time and labor. Target species: lice, horn flies, face flies, horse flies, stable flies, mosquitoes, black flies and ticks. Cattle: No pre-slaughter withdrawal. No milk discard. Apply 3 mL per 100 lb. body weight, up to the 30 mL maximum application limit. Also approved for use in backrubbers.

Quart UIN: 065590
UPC: 300615260029
Gallon UIN: 065589
UPC: 300615260012



Saber™ Pour-On Insecticide

1% LAMBDCYHALOTHRIN

Pour-on insecticide for beef cattle & calves. 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 over 600 lb.

900 mL UIN: 065526
 UPC: 300615062012
 Gallon UIN: 065537
 UPC: 300615062043



Boss® Pour-On Insecticide

5% PERMETHRIN

Pour-on insecticide for beef and dairy cattle and sheep. Low-volume dosage. Cattle: no preslaughter withdrawal. No milk discard. Apply 3 mL per 100 lb. body weight, up to the 30 mL maximum application limit.

Quart UIN: 066780
 UPC: 300615030011
 Gallon UIN: 066745
 UPC: 300615030028



Double Barrel® VP Insecticide Ear Tags

14% PIRIMIPHOS METHYL AND 6.8% LAMBDCYHALOTHRIN

Two active ingredients minimize development of resistance. For up to 5 months' control of Horn flies and Face flies. Use two tags per head on beef and non-lactating dairy cattle and calves.

20 ear tags per box UIN: 067807
 UPC: 300615004012



Saber™ Extra Insecticide Ear Tags

10% LAMBDCYHALOTHRIN AND 13% PIPERONYL BUTOXIDE

For up to 5-months control of horn flies and up to 4-months control of face flies (Use two tags per head) on beef and non-lactating dairy cattle and calves.

20 ear tags per box UIN: 065505
 UPC: 300615019023



Synergized DeLice® Pour-On Insecticide

1% PERMETHRIN, 1% PIPERONYL BUTOXIDE

Controls wide range of insects on livestock and premises. Controls lice, horn flies and face flies on lactating and non-lactating dairy cattle, beef cattle and calves and aids in control of horse flies, stable flies, horse flies, mosquitoes and black flies as well as others.

Gallon UIN: 065573
 UPC: 300615074060



Grenade® ER Premise Insecticide

9.7% LAMBDCYHALOTHRIN

A broad-spectrum premise insecticide for use in, on and around buildings and structures for the control of pests, including on lawns, ornamental trees and shrubs and around residential, institutional, public, commercial, agricultural and industrial buildings; and parks, recreational areas and athletic fields. Microencapsulated for long-lasting control of a wide variety of insects that plague surfaces.

8 oz. UIN: 065374
 UPC: N/A



Dominator® Insecticide Ear Tags

20% PIRIMIPHOS METHYL

For up to 5 months' control of Horn flies (including synthetic pyrethroid-resistant Horn flies) and as an aid in the control of Face flies, use two tags per head on beef and non-lactating dairy cattle and calves.

20 ear tags per box UIN: 067783
 UPC: 300615223017



ATROBAN® 11% EC

11% PERMETHRIN EMULSIFIABLE CONCENTRATE

Emulsifiable concentrate long-lasting insecticidal spray for livestock and their premises. Controls horn flies, face flies, stable flies, house flies, horse flies, black flies, mosquitoes, eye gnats, mites, ticks and lice, and sheep keds. For use in lactating and non-lactating dairy cattle and goats, beef cattle, horses, sheep and swine.

Pint UIN: 065882
 UPC: 300615055014
 Quart UIN: 065802
 UPC: 300615055021

SAFE-GUARD® (fenbendazole) features broad-spectrum activity against internal parasites, which threaten herd health, feed intake and performance. If parasites reside in the gut, they get to the nutrients consumed by the cattle first. The more parasites an animal has, the fewer nutrients it gets.

SAFE-GUARD, powered by the unique fenbendazole molecule, goes straight to the gut, killing worms in as little as one day versus seven to 14 days for seven endectocide-based products.⁴



www.safe-guardcattle.com

- **FAST-ACTING** – making it an excellent choice to pair with vaccination and for new animals on arrival.
- **CUMULATIVE** – parasites can't excrete fenbendazole so even cattle that ingest small amounts of SAFE-GUARD feed products over a few feedings still quickly build up to a lethal dose.
- **EFFECTIVE** – SAFE-GUARD is effective at eliminating 98.7% of profit-robbing parasites, whatever formula you choose.⁵

SAFE-GUARD gives Cattle Producers the options they need to deworm cattle efficiently and effectively to fit their operations.

SAFE-GUARD handling products are available in drench and paste formulations for use when cattle are being worked through a handling system.



Safe-Guard® (fenbendazole) Suspension (Drench)⁶

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. (2.3ml/100 lb. of cattle).⁶

Liter	UIN: 069293 UPC: 021784046718
Gallon	UIN: 069292 UPC: 021784467100
10 Liter	UIN: 149872 UPC: 8713184153005
125 mL (goats only) 12 x 125 mL	UIN: 004537 UPC: 021784045377 UPC: 021784004534
Cattle Suspension Dosing Kit	UIN: 124277 UPC: 021784124270
Goat Dosing Syringe	UIN: 006768 UPC: 021784067683



Safe-Guard® (fenbendazole) Paste⁶

A single application, low-dose volume paste with specially designed metal hook for convenient dosing. To be used only with Safe-Guard dosing equipment. Each 290 gm paste cartridge deworms 12,100 lb. of cattle.⁶

290 gm syringe	UIN: 145738 UPC: 021784472296
290 gm Dosing Kit	UIN: 066951 UPC: 021784098502
92 gm syringe	UIN: 066958 UPC: 021784471923

A single application, low-dose volume paste. Each 92gm tube deworms 4,000 lb. of cattle.



⁶Safe-Guard Drench and Paste:
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.

The Safe-Guard® (fenbendazole) Feed and Mineral Products line also offers multiple non-handling options to fit your operational needs.

Internal parasite control is the cornerstone of an effective animal health program, allowing cattle producers to deworm right in the the pasture. Safe-Guard® (fenbendazole) works differently than macrocyclic lactones, which have resistance issues due to overuse.⁷



Safe-Guard® (fenbendazole) Protein Block⁷

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.).⁸

25 lb. block UIN: 069290
UPC: 021784464253

Safe-Guard® (fenbendazole) En-Pro-Al® Molasses Block⁸

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.).⁹

25 lb. block UIN: 069291
UPC: 021784801256

Safe-Guard free-choice mineral products are available in 20 to 50-pound options. Feed over a three to six-day period; eight oz per 500 lb. of cattle. Formulations vary by company so follow label directions for use.



Safe-Guard® Dewormer Minerals¹⁰
NutreBeef®, MoorGuard®, Vigortone® 32SG & Cargill™ 32SG

Safe-Guard free-choice mineral products are available in 20 to 50-pound options. Feed over a three to six-day period; eight oz per 500 lb. of cattle. Formulations vary by company so follow label directions for use.

20-50 lb. pail or bags UPC: Varies by manufacturer

Safe-Guard is also available in 0.5% Type B pellets that deworm in a single feeding or as high-quality range cubes used for deworming cattle on pasture.



Safe-Guard® (fenbendazole) Range Cubes¹⁰

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.¹⁰ Available through authorized distributors and feed manufacturers.

50 lb. bag UPC: Varies by manufacturer

Safe-Guard® (fenbendazole) 0.5% Dewormer Pellets¹⁰

Palatable pellet or crumble for top-dress feeding or adding to meal rations available in 1, 5, 10, 25 and 50-pound bags or pails. One pound deworms 1,000 lb. of cattle.¹⁰ 10-pound bag available through Merck Animal Health, and all sizes available through animal health distributors and authorized Safe-Guard feed manufacturers —request product medicated with SAFE-GUARD Dewormer.

1 lb. bag UPC: Varies by manufacturer
5 lb. bag UPC: Varies by manufacturer
10 lb. bag UPC: Varies by manufacturer
25 lb. bag UPC: Varies by manufacturer
50 lb. bag UPC: Varies by manufacturer

Contact animal health distributor, authorized Safe-Guard feed manufacturers or Merck Animal Health customer service for assistance in ordering options.

¹⁰Safe-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.

⁷Bliss DH. The seasonal efficacy of fenbendazole in a strategic deworming program compared with "long-acting" endectocides given at turnout.

⁸Safe-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 prerinuating calves. Do not use in calves to be processed for veal.

⁹Safe-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 prerinuating calves. Do not use in calves to be processed for veal.

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