

Contents

Livestock product resource guide 2025

mwiah.com

800.824.3703

Monday - Friday: 6 am - 7 pm (MT) Saturday: 8 am - 2 pm (MT)

- 8 Cattle diseases that can be vectored by flies
- 9 House fly baits
- On-animal spray insecticides for use in cattle premise automatic misting systems*
- 10 Aerosol on-animal sprays
- 11 Fly traps
- 11-12 Empty-barn residual insecticides
- On-animal insecticidal pour-ons and capsules
- **15-16** Water-based on-animal sprays
- 17 Insecticides for use in dusters
- 17-18 Insecticides for use in backrubbers
- 19-20 Insecticidal cattle ear tag reference chart
- Larvicides for use in fly breeding sites in beef and dairy cattle production areas
- 22-24 Endectocides labeled for use against lice
- 25-27 Insecticides labeled for use against lice
- 28 Insecticides containing natural pyrethrins
- **30-35** Anthelmintics for beef cattle in feedlot or open range
- 36 Anthelmintics for beef cattle in open range only
- **36-37** Anthelmintics for dairy cattle
- 38 Colostrum product chart
- 41-42 Calving checklist
- 44-46 Cattle implant chart
- 47 Mastitis product chart
- 53 Vaccines: Pinkeye
- **49-57** Vaccines: Reproductive and respiratory diseases
- **58-61** Vaccines: Clostridial diseases
- **62** Liquid vitamins
- Ear tag comparison chart

my**AnimalRx**™



Learn more store.myanimalrx.com

Veterinarians can increase

Productivity

The ability to supply on-demand medications without the hassle of inventory and web order management.

Revenue

From practice to customer. myAnimalRx is an online pharmacy for practices that increases bottom line with inventory management, automated price maintenance, and customizable margins.

Visibility

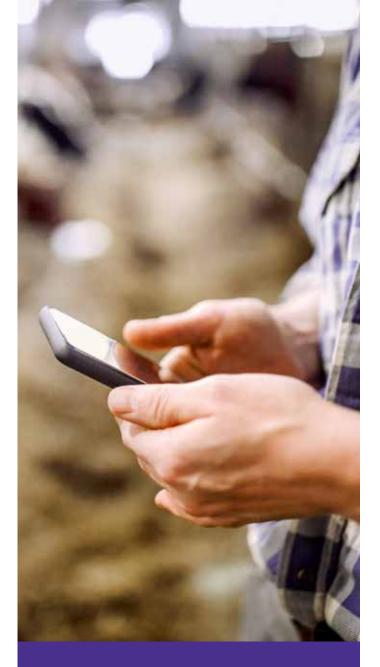
Understand producers' purchases in a new way. myAnimalRx brings insight to leverage supplier relationships for large animal product supply.

Security

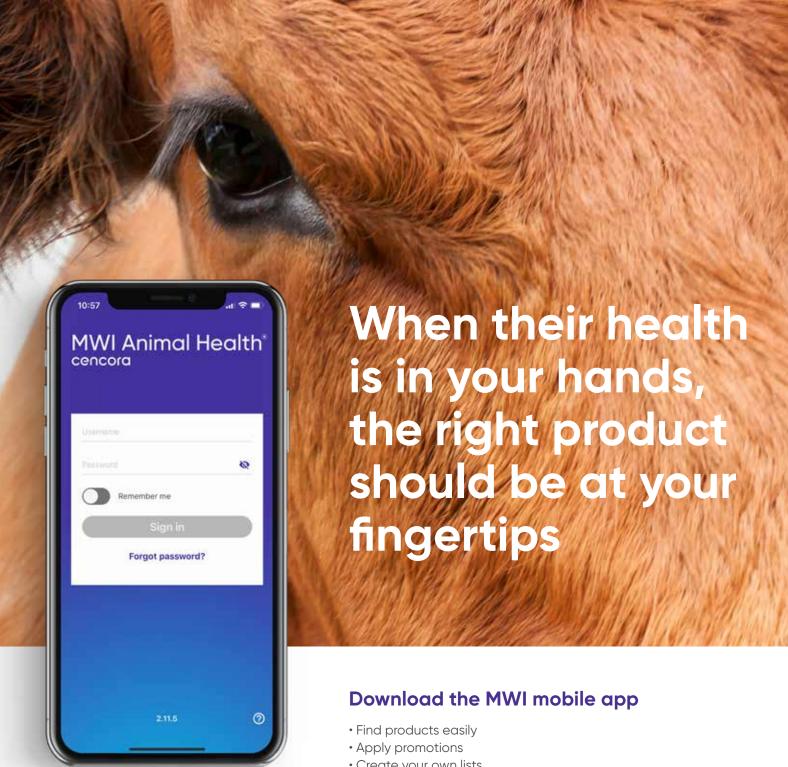
Safeguard the practice and patients with simpler compliance oversight.



Increase veterinary practice efficiency with myAnimalRx



- Shop online 24/7 for animal health supplies
- Shipped straight to customers, often in 24 hours
- Quick and simple re-orders for favorites and frequently purchased items
- Keep VCPR intact and compliance with GFI #263







- · Create your own lists
- View backorders
- Place orders and apply payment
- Track orders/shipments
- Scan labels and see package contents
- · Easily initiate returns
- · Validate and receive shipments

Learn more at mwiah.com/mobile-app





Pradalex, a first-of-its-kind antibiotic, reaches peak concentration within 45 minutes and starts killing BRD bacteria within 5 minutes on contact.¹ While targeting two DNA replication sites, Pradalex hits BRD with 3x the power in less than half the time.¹²

Faster recovery. Less stress³. Everyone wins with Pradalex.

Beat BRD with Pradalex

¹Elanco Animal Health. Data on File.

²Blondeau, J.M.; Fitch, S.D. Comparative In Vitro Killing by Pradofloxacin in Comparison to Ceftiofur, Enrofloxacin, Florfenicol, Marbofloxacin, Tildipirosin, Tilmicosin and Tulathromycin against Bovine Respiratory Bacterial Pathogens. Microorganisms 2024, 12

³Elanco Animal Health. Data on File.

IMPORTANT SAFETY INFORMATION

Caution: Federal law restricts this drug to use by or on the order of a licensed veterinarian. Not for use in humans. Keep out of reach of children. Avoid contact with eyes and skin. Individuals with a history of hypersensitivity to quinolones should avoid this product. Not for use in animals intended for breeding greater than 1 year of age because the effects of Pradalex on bovine reproductive performance, pregnancy, and lactation have not been determined. Not for use in beef and dairy calves less than 2 months of age, and veal calves; a withdrawal period has not been established for this product in pre-ruminating calves. Quinolones should be used with caution in animals with known or suspected central nervous system (CNS) disorders. Mild to moderate inflammatory changes of the injection site may be seen in cattle treated with Pradalex. See package insert for additional safety information.

Pradalex, Elanco and the diagonal bar logo are trademarks of Elanco or its affiliates. © 2024 Elanco. PM-US-24-1407(2)



Cattle diseases that can be vectored by flies

| Fly species | Disease | Disease-causing microrganism | Reference |
|-------------------------------------|----------------------------------|---|--|
| Face fly (Musca autumnalis) | Pinkeye disease | Moraxella bovis, Moraxella bovoculi | ¹ Addison, B. 2011. Research shows new pinkeye strain. <i>Progressive Cattleman</i> , May 2, 2011. (addisonlabs.com/wp-content/uploads/2016/02/CattlemanPinkeye.pdf) |
| Horn fly (Haematobia irritans) | Stephano- filariasis | Stephanofilaria stilesi | ² Hibler CP. 1966. Development of <i>Stephanofilaria stilesi</i> in horn fly. <i>Journal of Parasitology</i> 52:890-898. |
| | Bovine respiratory disease | Mannheimia haemolytica, Pasteurella multocida, Histophilus somni, Mycoplasma bovis | ³ Neupane, S., D. Nayduch, and L. Zurek. 2019. House flies (<i>Musca domestica</i>) pose a risk of carriage and transmission of bacterial pathogens associated with bovine respiratory disease (BRD). <i>Insects</i> 10:358 (doi.org/10.3390/insects10100358) |
| House fly (Musca domestica) | Crypto-sporidiosis | Cryptosporidium parvum | ⁴ Graczyk, T. K., M. R. Cranfield, R. Fayer, and H. Bixler. 1999. House flies (Musca domestica) as transport hosts of Cryptosporidium parvum. American Journal of Tropical Medicine and Hygiene 61(3):500-504. |
| Later | Escherichia coli infection | Escherichia coli O157:H7 | ⁵ Alam, M. J. and L. Zurek. 2004. Association of <i>Escherichia coli</i> O157:H7 with houseflies on a cattle farm. <i>Applied and Environmental Microbiology</i> 70:7578–7580. |
| | Salmonella infection | Salmonella | ⁶ Xu, Y., S. Tao, N. Hinkle, M. Harrison, and J. Chen. 2018. <i>Salmonella</i> , including antibiotic-resistant <i>Salmonella</i> , from flies captured from cattle farms in Georgia, U.S.A. <i>Science of the Total Environment</i> 616-617:90-96. |
| Stable fly (Stomoxys calcitrans) | A | | ⁷ Turell, M. J. and G. B. Knudson. 1987. Mechanical transmission of <i>Bacillus anthracis</i> by stable flies (<i>Stomoxys calcitrans</i>) and mosquitoes (<i>Aedes aegypti</i> and <i>Aedes taeniorhynchus</i>). <i>Infection and Immunity</i> 55:1859-1861. |
| 2 | Mycoplasma wenyonii infection | Mycoplasma wenyonii | ⁸ Hornok, S., A. Micsutka, M. L. Meli, H. Lutz, and R. Hofmann Lehmann. 2011. Molecular investigation of transplacental and vector-borne transmission of bovine haemoplasmas. <i>Veterinary Microbiology</i> 152:411-414. |

House fly baits

| Mfr | Brand name | Item # | Unit | Active ingredient | Formulation | Rate | | | | |
|---------|---|---------------|----------|---|---|---------------------------|--|--|--|--|
| Targe | Target species: House flies; note: not for stable fly control | | | | | | | | | |
| BASF | PT® Alpine® Pressurized Fly Bait | 053425 16 oz. | | dinotefuran (1.0%) | pressurized liquid bait (ready-to-use) | See label for directions | | | | |
| | Agita® 10 WG | 062584 | each | thiamethoxam (10.0%) | sprayable bait | See label for directions | | | | |
| 0 | | 028630 | 350 gram | - : : : : : : (0.50) | | | | | | |
| Elanco | QuickBayt® Fly Bait | 021577 | 5 lb. | imidacloprid (0.5%) + (Z)-9-tricosene (0.1%) | solid bait | 1.5 oz. per 250 sq. ft. | | | | |
| Ш | | 040276 | 35 lb. | (2) 7 (1.100001.10 (01.10) | | | | | | |
| | QuickBayt® Spot Spray | 035202 | 3 oz. | imidacloprid (10.0%) + | sprayable bait | 16 oz. per 1 gal. water | | | | |
| | QuickBuyt Spot Spray | 030238 | 1 lb | (Z)-9-tricosene (0.1%) | sprayable balt | | | | | |
| | DuraStrike™ 1200 | | 28 lb. | indoxacarb (0.5%) | solid bait | 6.4 oz. per 1,000 sq. ft. | | | | |
| | Golden Malrin® Fly Bait** | 064707 | 10 lb. | methomyl (1.000%) + | | 4.0 oz. per 500 sg. ft. | | | | |
| _ | Golden Maillin Thy Balt | 040581 | 40 lb. | (Z)-9-tricosene (0.049%) | | 4.0 02. per 300 sq. rt. | | | | |
| Starbar | QuikStrike® Fly Abatement Strip | 037084 | P2 | nithiazine (1.0%) | bait strip | See label for directions | | | | |
| Ş | | 050689 | 1 lb. | _ | | | | | | |
| | QuikStrike® Fly Bait | 035500 | 5 lb. | dinotefuran (0.50%) + | solid bait | 2.0 oz. per 250 sq. ft. | | | | |
| | | 034067 | 40 lb. | (Z)-9-tricosene (0.04%) | | | | | | |
| | QuikStrike® Fly Bait Spray 055340 40 lb. | | | sprayable bait | 16 oz. per 1 gal. water | | | | | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. ** Restricted use insecticide in Alaska, Indiana, Michigan, and Vermont.

On-animal spray insecticides for use in cattle premise automatic misting systems*

| Mfr | Brand name | Item # | Unit | Active ingredient | | | | | |
|---|---|--------|----------|-------------------------------------|--|--|--|--|--|
| Targe | Target species: House fly, stable fly | | | | | | | | |
| Rate: | Rate: See label for dilution rates. Spray must be directed to the legs of cattle to control stable flies. | | | | | | | | |
| Solutions Solutions April Nector-Ban Plus | | 050619 | 0.5 gal. | permethrin (10.0%) + PBO (10.0%) | | | | | |
| ¥ | Riptide® Waterbased Pyrethrin ULV | 052706 | 64 oz. | natural pyrethrins (5%) + PBO (25%) | | | | | |
| MGK | Sector® Misting Concentrate | 091755 | gallon | permethrin (10.0%) + PBO (10.0%) | | | | | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. No meat or milk withdrawals indicated. *Check with your local state regulatory office for misting system and insecticide regulations and restrictions.

Aerosol on-animal sprays

| Mfr | Brand name | Item # | Unit | Active ingredient | | | | | |
|------------|--|--------|----------|--|--|--|--|--|--|
| Targe | arget species: House fly, stable fly | | | | | | | | |
| Rate: | Rate: See label for detailed directions. | | | | | | | | |
| Amrep Inc. | Country Vet Mosquito & Fly Spray (for use in automatic metered dispensers) | 026524 | 6.9 oz. | natural pyrethrins (1.76%) + PBO (5.00%) | | | | | |
| Amre | Country Vet Farm & Dairy CV-80D for Insect Control | 038836 | 18.5 oz. | natural pyrethrins (0.50%) + PBO (4.00%) | | | | | |
| let / | Dairy Bomb 55 | 051626 | 25 oz. | natural pyrethrins (0.5%) + PBO (5.0%) | | | | | |
| Durvet | Dairy Bomb 55Z | 051625 | 25 oz. | natural pyrethrins (0.5%) + PBO (5.0%) | | | | | |
| Elanco | Catron® IV | 014339 | 10 oz. | permethrin (0.50%) | | | | | |
| | Prozap® CT-75 Aerosol Insecticide | 053003 | 26 oz. | natural pyrethrins (0.7%) + PBO (5.0%) | | | | | |
| Neogen | Prozap® LD-44Z Insect Fogger | 021366 | 20 oz. | natural pyrethrins (0.5%) + PBO (4.0%) | | | | | |
| Ž | Flozap LD-44Z liisect Foggei | 043782 | 25 oz. | Hatulal pyletifilis (0.3%) + PBO (4.0%) | | | | | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. No meat or milk withdrawals indicated.

Fly traps

| Mfr | Brand name | Item # | Unit | | | | | | |
|-------------|--|--------|------|--|--|--|--|--|--|
| Targe | arget species: House fly* | | | | | | | | |
| Catchmaster | Pro Series Bulk Scented Bug & Fly Ribbon | 053834 | P4 | | | | | | |
| | *Bite Free™ Stable Fly Trap (for stable flies) | 039091 | each | | | | | | |
| | Captivator® Fly Trap | 039090 | each | | | | | | |
| | Fly Stik™ | 039095 | each | | | | | | |
| Starbar | Fly Stik™ Jr. | 039094 | each | | | | | | |
| Stal | Fly Terminator® Pro | 039088 | each | | | | | | |
| | FlyRelief™ Disposable Fly Trap | 050643 | each | | | | | | |
| | Giant FlyRelief™ Disposable Fly Trap | 050870 | each | | | | | | |
| | Trap 'N Toss™ Disposable Fly Trap | 039092 | each | | | | | | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer.

Empty-barn residual insecticides

| Mfr | Brand name | Item# | Unit | Active ingredient | Formulation | Rate | | | | |
|---------|---|--------|----------|------------------------------|--|--|--|--|--|--|
| Targe | Target species: Flies | | | | | | | | | |
| BASF | Alpine® WSG Water Souble Granule Insecticide | 063236 | 500 gram | dinotefuran (40.0%) | Spray (water soluble granules) | 10 to 20 grams per 1 gal. per 1,000 ft² | | | | |
| | PermaCap CS® | 051794 | 120 oz. | permethrin (23.0%) | Spray (water-based; micro-encapsulated) | 5.30 fl. oz. per 1 gal. water per 1,000 ft ² | | | | |
| trol | Bifen I/T Insecticide/Termiticide | 057379 | gallon | bifenthrin (7.9%) | spray (water-based) | 0.33 to 1.00 fl. oz. per 1 gal. per 1,000 ft² | | | | |
| Control | Cyzmic® CS | 050610 | quart | lambda-cyhalothrin (9.7%) | Spray (water-based; micro-encapsulated) | 0.80 fl. oz. per 1 gal. water per 1,000 ft ² | | | | |
| 0 | CyLence Ultra™ Premise Spray 03 | | 240 ml. | beta-cyfluthrin (11.8%) | Spray (water-based) | 0.54 fl. oz. per 1 gal. water per 1,000 ft² | | | | |
| Elanco | Elector® PSP | 045949 | 8 oz. | spinosad (44.2%) | Spray (water-based) | 0.20 fl. oz. per 1 gal. water per 1,000 ft ² | | | | |
| Merck | Grenade® ER Insecticide | 013190 | 8 oz. | lambda-cyhalothrin (9.7%) | Spray (water-based; micro-encapsulated) | 0.80 fl. oz. per 1 gal. water per 1,000 ft ² | | | | |

Empty-barn residual insecticides

| Mfr | Brand name | Item # | Unit | Active ingredient | Formulation | Rate | | |
|--------|---|--------|--------|---|--|---|--|--|
| Target | Target species: Flies | | | | | | | |
| MGK | Onslaught® FastCap Spider and | 061570 | pint | esfenvalerate (6.4 %) - + prallethrin (1.6%) + | Spray (water-based; micro-encapsulated) | 0.5 fl. oz. per 1 gal. water per 1,000 ft ² | | |
| | Scorpion Insecticide | 063695 | CS2 | PBO (8.0%) | | | | |
| | Shockwave® 1 Flushing, Killing & Residual Aerosol | 096402 | 17 oz. | pyrethrins (0.50%) + PBO (1.00%) + MGK 264 (1.50%) + bifenthrin (0.05%) + pyriproxyfen (0.20%) | Aerosol | See label for diections | | |

Equipment for applying insecticides in and around dairy calf hutches, dairy barns, and beef cattle feedlots

| Mfr | Model | Website |
|--------------------------|--|----------------------|
| | Cobra Mist Sprayer for UTV's Pest and Weed | |
| ers Systems | Ranger 60 Mist Sprayer Heavy Duty | |
| A1 Mist Sprayers Systems | Super Duty Tank 100 Gallon | www.mistsprayers.com |
| | Terminator Heavy Duty 3-Point Mist Sprayer | |



Make lice control easier this winter. With Prozap Protectus Pour-On Insecticide—IGR experience:

• 7x faster refill time * • 36% easier to squeeze • Season-long lice control*



Learn more about Prozap solutions by scanning the code or visit Prozap.com

Protect your **herd.**Protect your **profits.**



neogen.com • 800.621.8829 (USA/Canada) • 859.254.1221

Neogen Corporation, 620 Lesher Place, Lansing, MI 48912, USA.

©Neogen Corporation 2024. All rights reserved. Neogen, Protectus, and Prozap are registered trademarks of Neogen Corporation.

*Data on file at Neogen

On-animal insecticidal pour-ons and capsules

| Targe | et fly species: Horn fly | | | | | |
|---------|--|----------------------------|--------------------------------|---|--|--|
| Mfr | Brand name | Item # | Unit | Active ingredient | Rate | |
| Control | Martin's® Fly-Ban Synergized Pour-On | 063272 | 55 gal. | permethrin (7.4%) + PBO (7.4%) | 2mL per 100 lbs. body weight | |
| | AIM-A VetCaps™ (for VetGun™) | 064265 | B30 | abamectin (3.15%) | 1 capsule per cattle weighing greater than 600 lbs. | |
| | | 064266 | B150 | | gleater than 600 lbs. | |
| et et | AIM-L VetCaps™ (for VetGun™) | 048597 | B30 | lambda-cyhalothrin (1.5%) + | 1 capsule per cattle weighing | |
| Durvet | | 051114 | B150 | PBO (7.5%) | greater than 600 lbs. | |
| | Synergized Permethrin 1% Pour-On Insecticide | 043780 | gallon | permethrin (1.0%) + PBO (1.0%) | 0.5 fl. oz. per 100 lbs. body weight; maximum 5.0 fl. oz. | |
| | Clean-Up™ II Pour-On Insecticide with IGR | 025819 | 0.5 gal. 2.5 gal. | diflubenzuron (3.0%) + permethrin (5.0%) | 3mL per 100 lbs. body weight | |
| Elanco | CyLence® Pour-On Insecticide | 011474 | 16 oz. | cyfluthrin (1.0%) | see label | |
| ĕ | Permectrin™ CDS Pour-On Insecticide | 012680 012681 019317 | 16 oz. 0.5 gal. 2.5 gal. | permethrin (7.4%) + PBO (7.4%) | 2mL per 100 lbs. body weight | |
| | Ultra Boss® Pour-On Insecticide | 121358 | 5 liter | permethrin (5.0%) + PBO (5.0%) | 3mL per 100 lbs. body weight | |
| Merck | Ultra Saber™ Pour-On Insecticide* | 121357 | 30 oz. | lambda-cyhalothrin (1.0%) + PBO (5.0%) | 10mL per head for cattle weighing less than 600 lbs.; 15mL per head for cattle weighing more than 600 lbs. | |
| Σ | | 121354 | 5 liter | | | |
| | Prozap® Backrubber and Pour-On Xtra | 047967 | 2.5 gal. | permethrin (0.125%) + PBO (0.125%) | 1 fl. oz. per 100 lbs. | |
| _ | Prozap® Protectus Pour-On Insecticide- | 118139 | 0.5 gal. | diflubenzuron (3.0%) + PBO | | |
| Neogen | IGR | 118141 | 2.5 gal. | — (2.5%) + lambda-cyhalothrin (0.5%) | 3 mL per 100 lbs. body weight | |
| Ne | | 034615 | 900 ml. | (515-5) | 10mL per head for cattle | |
| | StandGuard™ Pour-On Insecticide* | 044809 | 4.5 liter | gamma-cyhalothrin (0.5%) | weighing less than 600 lbs.; 15mL per head for cattle weighing more than 600 lbs. | |
| | | 117923 | 0.5 gal. | diflubenzuron (3.0%) + PBO | | |
| Starbar | Inhibidor™ Insecticidal Pour-On | 117893 | 2.5 gal. | (2.5%) + lambda-cyhalothrin (0.5%) | 3 mL per 100 lbs. body weight | |
| Stc | Starbar® Cattle Armor 1% Synergized Pour-On | 090883 | 55 gal. | permethrin (1.0%) + PBO (1.0%) | 0.5 fl. oz. per 100 lbs. body weight | |
| × | | 113549 | 16 oz. | | | |
| Y-Tex | Brute® Pour-On Insecticide | 014772 | gallon | permethrin (10.0%) | see label | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. *Do not apply to lactating or dry dairy cows.

Water-based on-animal sprays

| Mfr | Brand name | Item # | Unit | Active ingredient | Targeted fly species | Rate |
|-------------------|--|--------|----------------|---|---|--|
| olutions | Martin's® Permethrin SFR | 050606 | quart | permethrin (36.8%) | | 0.2 fl. oz. per 1 gal. water |
| Control Solutions | Vector-Ban™ Plus | 050619 | 0.5 gal. | permethrin (10.0%) + PBO (10.0%) | have the force the | 1.3 fl. oz. per 1 gal. water |
| | | 113683 | 8 oz. | | - horn fly, face fly, stable fly, house fly | |
| Durvet | Permethrin 10% Rapid Kill Insecticide Concentrate | 056747 | quart | permethrin (10.0%) | | 1.28 fl. oz. per 1 gal. water |
| | | 056793 | gallon | _ | | |
| | Co-Ral® Fly and Tick Sprayt | 043543 | 5 gal. | coumaphos (6.15%) | horn fly | see label Preharvest w/d = 10 days. |
| 00 | Permectrin™ II | 002394 | 8 oz. quart | permethrin (10.0%) | horn fly, face fly, stable fly | 2.5 fl. oz. per 1 gal. water. |
| Elanco | Ravap® E.C.*† | 013949 | gallon | tetrachlorvinphos (23.0%) + dichlorvos (5.3%) | horn fly, face fly | see label. |
| | Vapona® Concentrate Insecticide*† | 058706 | 2.5 gal. | dichlorvos (40.2%) | horn fly, face fly, stable fly, house fly see label for others) | see label Preharvest w/d = 1 day. |
| | EverGreen® Pro 60-6 | 063831 | quart | natural pyrethrins (6.0%) | horn fly, face fly, | 2.0 fl. oz. per 1 gal. water. |
| | | 062001 | gallon | + PBO (60.0%) | stable fly, house fly | |
| MGK | EverGreen® Pyrethrum Concentrate | 059359 | gallon | natural pyrethrins (5.0%; organic) | horn fly, face fly, stable fly, house fly | 3.0 fl. oz. per 1 gal. water. |
| Σ | Riptide® Waterbased Pyrethrin ULV | 052706 | 64 oz. | natural pyrethrins (5.0%) + PBO (25%) | horn fly, face fly, stable fly, house fly | Dilute 1 part concentrate with 49 parts water. Apply |
| | Sector® Misting Concentrate | 091755 | gallon | permethrin (10.0%) + piperonyl butoxide (10.0%) | horn fly, face fly, stable fly, house fly | 1.3 fl. oz. per 1 gal. water. |
| <u> </u> | | 085445 | 8 oz. | | | |
| Neogen | Prozap® Insectrin X Concentrate | 186942 | quart | permethrin (10.0%) | horn fly, face fly, stable fly | 1.3 fl. oz. per 1 gal. water. |
| S | | 385280 | gallon | | Stuble lly | |
| | Prolate/Lintox-HD™ Insecticidal | 040713 | quart | nh a ana a+ (11 7 7 9/) | horn fly | see label |
| oar | Spray & Backrubber for Livestock† | 059287 | gallon | – phosmet (11.75%) | - | Pre-harvest w/d = 3 days. |
| Starbar | D 17M C C | 059286 | quart | natural pyrethrins (6.0%) | horn fly, face fly, | 200 |
| 3, | Pyronyl™ Crop Spray | 059287 | gallon | + PBO (60.0%) | stable fly, house fly | 2.0 fl. oz. per 1 gal. water |
| Y-Tex | Gardstar® 40% EC | 039038 | quart | permethrin (40%) | horn fly, face fly, stable fly, house fly | 0.2 fl. oz. per 1 gal. water. |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. *Restricted use insecticide. †Not for use on young animals; refer to label.



Oil-based on-animal sprays

Target fly species: Horn fly, face fly, stable fly

| Mfr | Brand name | Item # | Unit | Active ingredient | Rate* | |
|---------|---|--------|----------|---|--|--|
| Control | Martin's® Fly-Ban Synergized Pour-On | 063272 | 55 gal. | permethrin (7.4%) + PBO (7.4%) | 2mL per 100 lbs. body weight up to a maximum of 20mL. | |
| Durvet | Super II Dairy & Farm Spray | 052072 | 2.5 gal. | dichlorvos (0.500%) + natural pyrethrins (0.050%) + PBO (0.100%) | 1-2 fl. oz. per animal for a three-day period. See label for other restrictions. | |
| Dui | Synergized Permethrin 1% Pour-On Insecticide | 043780 | gallon | permethrin (1.0%) + PBO (1.0%) | 0.5 fl. oz. per 100 lbs. body weight up to a maximum of 5.0 fl. oz. | |
| 8 | Permectrin™ CDS Pour-On Insecticide | 012680 | 16 oz. | | Apply 2mL per 100 lbs. body | |
| Elanco | | 012681 | 0.5 gal. | permethrin (7.4%) + PBO (7.4%) | weight up to a maximum of | |
| Ш | | 019317 | 2.5 gal. | | 20mL | |
| Merck | Synergized DeLice® Pour-On Insecticide | 121355 | 5 L | permethrin (7.4%) + PBO (7.4%) | 2mL per 100 lbs. body weight up to a maximum of 20mL. | |
| | | 051790 | gallon | | | |
| MGK | ULD® BP-100 | 051792 | 55 gal. | natural pyrethrins (1%) + PBO (5%) | Use undiluted—wet tips of hair | |
| Neogen | Prozap® VIP Insect Spray** | 037146 | gallon | dichlorvos (0.500%) + natural pyrethrins (0.025%) + PBO (0.250%) | Apply 1-2 oz. per animal. | |
| | Cattle Armer™ 10/ Dermethrin | 092220 | gallon | | Apply 0.5 fl. oz. per 100 lbs. | |
| Starbar | Cattle Armor™ 1% Permethrin Synergized Pour-On | 090883 | 55 gal. | permethrin (1.0%) + PBO (1.0%) | body weight up to a maximum of 5.0 fl. oz. | |
| Sta | UL-100 EC Insecticidal Spray | 059655 | gallon | natural pyrethrins (0.96%) + PBO (9.60%) | Dilute 1 part with 9 parts oil; 2 fl. oz. of mixture/1,000 cubic ft. | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. No pre-harvest withdrawals indicated. *Use undiluted using a mist sprayer. **Not for calves less than 6 months of age.

Insecticides for use in dusters

Target fly species: Horn fly, face fly

| Mfr | Brand name | Item # | Unit | Active ingredient | Rate |
|--------|------------------------------------|--------|-------|--|------------|
| | Co-Ral® Livestock Dust | 056200 | 2 lb. | - coumaphos (1.0%) | |
| 00 | CO-Nai Livestock Dust | 113738 | B4 | Courtaphos (1.0%) | |
| Elanco | Permectrin™ Fly & Louse Dust | 047607 | 2 lb. | permethrin (0.25%) | |
| | remeetiii Tiy & Louse Dust | 047608 | each | permetriii (0.23%) | |
| Neogen | Prozap® Insectrin Dust | 051624 | P2 | permethrin (0.25%) | see label. |
| Y-Tex | PYThon® Dust Livestock Insecticide | 050116 | 2 lb. | zeta-cypermethrin (0.075%) + PBO (0.150%) | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer.

Insecticides for use in backrubbers

Target fly species: Horn fly, face fly

| Mfr | Brand name | Item # | Unit | Active ingredient | Rate | | |
|---------|--|--------|----------|---|--|--|--|
| ol | Martin's® Fly-Ban Synergized Pour-On | 063272 | 55 gal. | permethrin (7.4%) + PBO (7.4%) | Mix 64mL (2.1 fl. oz.) per gal. of | | |
| Control | Martin's® Permethrin SFR | 050606 | quart | permethrin (36.8%) | Dilute 4 fl. oz. to 10 gals. diesel oil or suitable mineral oil. | | |
| | Co-Ral® Fly and Tick Spray† | 043543 | 0.5 gal. | coumaphos (6.15%) | Mix 4 quarts in 13 gals. of #2 fuel oil or #2 diesel fuel. | | |
| | | 012680 | 16 oz. | | | | |
| | Permectrin® CDS Pour-On Insecticide | 012681 | 0.5 gal. | permethrin (7.4%) + PBO (7.4%) | Mix 64 (2.1 fl. oz.) per gal. of mineral oil. | | |
| 00 | | 019317 | 2.5 gal. | | | | |
| Elanco | | 002394 | 8 oz. | | Mix 1 quart in 20 gals; 8 oz in 5 gal.; | | |
| | Permectrin II™ | 000903 | quart | permethrin (10.0%) | 1.5 oz. (48 mL) in 1 gal. mineral oil or non-irritating organic oil. | | |
| | Ravap™ E.C.*† | 013949 | gallon | tetrachlorvinphos (23.0%) + dichlorvos (5.3%) | Dilute 5 fl. oz. in 1 gal. oil. | | |
| Merck | Synergized DeLice® Pour-On Insecticide | 121355 | 5 L | permethrin (1.0%) + PBO (1.0%) | Mix one pint per gal. #2 diesel or mineral oil. | | |
| Σ | Ultra Boss® Pour-On Insecticide | 019474 | quart | permethrin (5.0%) + PBO (5.0%) | Mix 100mL per gal. of #2 diesel oil or mineral oil. | | |

Insecticides for use in backrubbers

Target fly species: Horn fly, face fly

| Mfr | Brand name | Item # | Unit | Active ingredient | Rate | | |
|---------|---|--------|----------|---------------------------------------|--|--|--|
| | Prozap® Backrubber and Pour-On Xtra | 047967 | 2.5 gal. | permethrin (0.125%) + PBO (0.125%) | Apply undiluted. Fill reservoir or saturate applicator. | | |
| Neogen | Prozap® Insectrin 1% Pour-on Xtra | 982220 | 2.5 gal. | permethrin (1.0%) + PBO (1%) | Mix one pint per gal. #2 diesel or mineral oil. | | |
| Neo | Prozap® Insectrin CS | 486738 | 16 oz. | permethrin (7.4%) + PBO (7.4%) | Mix 64mL (2.1 oz) per gal. of mineral oil. | | |
| | Drozens® Incontrin V Componity att | 186942 | 32 oz. | 10 000) | Dilute 1.6 fl. oz. in 1 gal. oil. | | |
| | Prozap® Insectrin X Concentrate | 385280 | gallon | permethrin (10.0%) | Dilate 1.0 11. 02. 111 1 gal. 011. | | |
| | Cattle Armor™ 1% Permethrin | 092220 | gallon | - permethrin (1%) + PBO (1%) | Mix one pint per gal. #2 diesel or | | |
| bar | Synergized Pour-On | 090883 | 55 gal. | - permetrim (1%) · 1 bo (1%) | mineral oil. | | |
| Starbar | Prolate/Lintox-HD™ Insecticidal Spray | 040713 | quart | | Dilute 1 pint per 6.25 gals. | | |
| | & Backrubber for Livestock [†] | 043550 | gallon | phosmet (11.75%) | fuel oil or other suitable carrier. Pre-harvest w/d = 3 days. | | |
| | Brute® Pour-On Insecticide | 113549 | 16 oz. | permethrin (10.0%) | Dilute 48 mL (1.6 fl. oz.) per gal. diesel | | |
| Y-Tex | Brute Four-On insecticide | 014772 | gallon | реппеціпі (ю.0%) | fuel or oil. | | |
| > | Gardstar® 40% EC | 039038 | quart | permethrin (40%) | 0.2 fl. oz. per 1 gal. of water. | | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. *Restricted use insecticide. †Not for young animals; refer to label.

Insecticidal cattle ear tag reference chart

| | Brand | Mfr. | Active Ingredient | Target fly species | For lactating dairy | Applicator | Rate | Weight | Duration claimed | Tags/ unit | Item # |
|-----------|--------------------------------------|--------|---|-----------------------|---------------------------|-------------------------|--|-----------------|-------------------|---------------|--------|
| Macrocycl | ic lactone tags | 5 | | | | | | | | | |
| 0 | \/D 000™ | | abamectin (8%) | | | | 2 tags per | | | 20 | 034180 |
| | XP 820™ Insecticide Ear Tag | Y-Tex | + PBO (20%) | horn fly, face fly | / | Y-Tex | animal (1 tag on each ear) | 9g per tag | Up to 5 months | 100 | 034181 |
| Organoph | osphate tags | | | | | | | | | | |
| | Corathon® Insecticide Ear Tag* | Elanco | diazinon (35%) + coumaphos (15%) | horn fly, face fly | | Allflex® | 2 tags per mature animal (1 tag to each ear); 1 tag per calf | 14g per tag | Up to 5 months | 20 | 035840 |
| | Dominator® Insecticide Ear Tag | Merck | pirimiphos- methyl (20%) | horn fly, face fly | | | 2 tags per animal (1 tag to each ear) | 9.5g per tag | Up to 5 months | 20 | 011501 |
| 0 | MAX40™ | | | | | Y-Tex® | 1-2 tags | | | 20 | 099124 |
| | Insecticide Cattle Ear Tag** | Y-Tex | diazinon (40%) | horn fly | | Ultra Tagger plus | per animal (see label for details) | 15g per tag | Up to 5 months | 100 | 099121 |
| | Patriot™ | | | horn fly | | | 2 tags per | | | 20 | 001739 |
| | Insecticide Ear Tag | Elanco | horn fly, diazinon (40%) face fly, stable fly | | | Allflex® (| | 15g per tag | 3-5 months | 120 | 001733 |

Insecticidal cattle ear tag reference chart

| | Brand | Mfr. | Active Ingredient | Target fly species | For lactating dairy | Applicator | Rate | Weight | Duration claimed | Tags/ unit | Item # |
|------------|---|--------|--|-----------------------|---------------------------|------------|--|----------------|-------------------|---------------|--------|
| Pyrethroid | tags | | | | | | | | | | |
| | Cylence Ultra® Insecticide Ear Tag | Elanco | beta-cyfluthrin (8%) + PBO (20%) | horn fly, face fly | ✓ | Allflex® | 2 tags per mature animal (1 tag to each ear) | 14g per tag | Up to 5 months | 20 | 021095 |

Insecticidal cattle ear tag reference chart

| | Brand | Mfr. | Active Ingredient | Target fly species | For lactating dairy | Applicator | Rate | Weight | Duration claimed | Tags/ unit | Item # |
|-----------|--|-------|---|---|---------------------|------------|--|-------------------|-------------------|---------------|--------|
| | Gardstar® Plus Insecticide Ear Tag | | permethrin (10%) | | <u> </u> | _ | 2 tags per | 9.5g per tag | 4-5 months | 25 | 012641 |
| | PYthon® II Insecticide Ear Tag | Y-Tex | zeta-cyper- methrin, S-enantiomer (5%) + PBO (20%) | horn fly, face fly, stable fly | / | Y-Tex® | animal (1 tag to each ear) | 9.5g per tag | 4-5 months | 20 | 021780 |
| | | | | | | | | | | 100 | 021781 |
| | PYthon® II Magnum™ | | zeta- cypermethrin, | horn fly, face fly, | , | | 1 tag per | 15g per | 4-5 | 20 | 021778 |
| | Insecticide Ear Tag | | S-enantiomer (5%) + PBO (20%) | stable fly (see label for others) | | | animal | tag | months | 100 | 021779 |
| | Saber® Extra Insecticide Ear Tag | Merck | lambda- cyhalothrin (10%) + PBO (13%) | horn fly, face fly | | Allflex® | 2 tags per animal (1 tag to each ear) | 9.5g per tag | Up to 5 months | 20 | 011503 |
| Combinati | ion tags | | | | | | | | | | |
| | Double Barrel® VP Insecticide Ear Tag | Merck | pirimiphos- methyl (14.0%) + lambda- cyhalothrin (6.8%) | horn fly, face fly | | Allflex® | 2 tags per animal (1 tag to each ear) | 9.5g per strip | Up to 5 months | 20 | 012491 |
| | | | | | | | | | | 20 | 065868 |
| | Tri-Zap™ Insecticide Cattle Ear Tag | Y-Tex | zeta-cyper- methrin + abamectin (6.0%) + PBO (20%) | horn fly, face fly | ✓ | Y-Tex® | 1-2 tags per animal (see label for details) | 9.5g per tag | 2- 4 months | 100 | 065869 |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings and safety information made available by the product's manufacturer. *Restricted use in California. **Consult with your local state department of agriculture for more up-to-date registration status and restrictions before using any product listed in this publication.

Larvicides for use in fly breeding sites in beef and dairy cattle production areas

| Mfr | Brand name | Item # | Unit | Active ingredient | Formulation | Targeted fly species* |
|---------------------------|---|--------|---------|-----------------------|-------------|--|
| Central Life Sciences | ClariFly® Larvicide Livestock Pre-mix 0.67% Larvicide | 052596 | 50 lb. | diflubenzuron (0.67%) | Feedthrough | larvae of flies |
| u # | JustiFLY® 3% 360gram Add Pack | 099324 | 360 gm. | diflubenzuron (3.0%) | Feedthrough | larvae of flies |
| Champion Animal Health | JustiFLY® Liquid Feed Add Pack | 112211 | 2.5 lb. | diflubenzuron (3.0%) | Feedthrough | larvae of flies |
| Control | Tekko™ 10 | 056686 | gallon | novaluron (9.3%) | Spray | larvae of house fly and dump fly |
| Elanco | Elector™ PSP Premise Insect Control Agent | 045949 | 8 oz. | spinosad (44.2%) | Spray | larvae (and adults) of house fly, stable fly, and little house fly |
| ш | Neporex™ 2 SG | 035495 | 5 kg. | cyromazine (2.0%) | Granules or | larvae of flies |
| | · | 094996 | 44 lb. | | Spray | |
| MGK | NyGuard® IGR Concentrate | 061004 | 140 ml. | pyriproxyfen (10.0%) | Spray | larvae of flies |
| Starbar | Exhalt™ WDG Insect Growth Regulator | 116418 | 5 lb. | - novaluron (4%) | Granules or | Larvae of house fly, darkeyed fruit fly, soldier |
| Sta | Extract 1100 insect Crowth Regulator | 116417 | 12 oz. | 110 Valid (011 (470) | Spray | fly, dump fly |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. See label for use rates. Listed products have zero beef cattle pre-harvest interval or dairy cattle milk withdrawal period. *Larvae of flies - Larvae of horn fly, face fly, house fly, and stable fly.

Endectocides labeled for use against lice

| Mfr | Brand name | Item # | Unit | Active ingredient | Target parasites (see label for detailed list) | On- animal use | Pre-harvest interval (days) |
|------------|------------------------------|--------|--------|------------------------------|--|----------------------|-----------------------------------|
| | Dooto Card™ Dour On | 119732 | 2.5L | doramectin 0.5% w/v | | beef | 45 |
| | DectoGard™ Pour-On | 119730 | 5L | (5 mg/mL) | | cattle* | 45 |
| Aurora | | 120196 | 5L | 5 mg eprinomectin/mL | gastrointestinal roundworms, lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites | beef and dairy | 0 |
| | EpriGard™ Pour-On | 124275 | 5L | 5 mg eprinomectin/mL | | cattle | O |
| p B | | 104649 | 2.5L | | gastrointestinal roundworms, | | |
| Bimeda | Bimectin® Pour-On for Cattle | 050893 | 10L | ivermectin (5 mg/mL) | lungworms, cattle grubs, biting and | beef cattle* | 48 |
| ä | | 102765 | 2.0L | _ | sucking lice, horn flies, mange mites | | |
| | | 013982 | 250ml | | | | |
| | | 013983 | 1L | | gastrointestinal roundworms, lungworms, cattle grubs, biting and | | |
| | EPRINEX® Pour-On for | 015439 | 2.5L | | | beef and dairy | 0 |
| | Cattle | 014038 | 5L | eprinomectin (5 mg/mL) | sucking lice, horn flies, mange mites | cattle | 0 |
| | | 103257 | 10L | | | | |
| | | 015440 | 20L | | | | |
| | | 118389 | 50ml | | | | |
| | IVOMEC® Plus Injection for | 118390 | 200ml | _ _ ivermectin (1% w/v) + | gastrointestinal roundworms, adult | beef | 21 |
| her | Cattle | 116813 | 500ml | clorsulon (10% w/v) | liver flukes, lungworms, cattle grubs, sucking lice, mange mites | cattle* | 21 |
| Boeringher | | 116815 | 1000ml | - | | | |
| Вое | | 018454 | 250ml | | | | |
| | | 018453 | 1L | _ | | | |
| | IVOMEC® Pour-On for | 002013 | 2.5L | : | gastrointestinal roundworms, | beef | / 0 |
| | Cattle | 027178 | 2x5L | ivermectin (5 mg/mL) | lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites | cattle* | 48 |
| | | 043498 | 5L | | | | |
| | | 015438 | 20L | | | | |
| | | 004831 | 50ML | _ | | | |
| | IVOMEC Injection 1% | 018480 | 500ML | ivermectin | | | |
| | | 019042 | 1000ML | | | | |
| | | 053140 | 250ml | | | | |
| Durvet | Ivermectin Pour-On for | 054007 | 1L | - ivermectin (5 mg/mL) | gastrointestinal roundworms, | beef | /.O |
| Dur | Cattle | 055218 | 2.5L | ivermectin (5 mg/mt) | lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites | d cattle* | 48 |
| | | 043552 | 5L | | | | |

| Mfr | Brand name | Item # | Unit | Active ingredient | Target parasites (see label for detailed list) | On- animal use | Pre-harvest interval (days) |
|------------|---|---------|--------|---|---|----------------------|-----------------------------------|
| | Cydectin® Injectable Solution for Beef and Nonlactating Dairy Cattle | 027082 | 500ml | moxidectin (10 mg/ml) | gastrointestinal roundworms, lungworms, cattle grubs, sucking lice, mange mites | beef cattle* | 21 |
| 00 | | 014329 | 500ml | | | | |
| Elanco | | 014330 | 1L | _ | gastrointestinal roundworms, | beef and | |
| | Cydectin® Pour-On for Beef and Dairy Cattle | 014331 | 2.5L | moxidectin (5 mg/mL) | lungworms, cattle grubs, biting and | dairy | 0 |
| | | 014525 | 5L | | sucking lice, horn flies, mange mites | cattle | |
| | | 017788 | 10L | | | | |
| Huvepharma | Agri-Mectin® Injection for Cattle and Swine | 055531 | 50ml | ivermectin (1%) | gastrointestinal roundworms, lungworms, cattle grubs, sucking lice, mange mites | beef cattle* | 35 |
| 'Not lo | abeled for use on lactating dairy | cattle. | | | | | |
| *Not lak | | 090437 | 2.5L | | gastrointestinal roundworms, | beef and | |
| | Eprizero® Pour-On for Beef and Dairy Cattle | 090439 | 5L | eprinomectin (5 mg/mL) | lungworms, cattle grubs, biting and | dairy | 0 |
| | | 090440 | 20L | | sucking lice, horn flies, mange mites | cattle | |
| | | 034070 | 50ml | _ | gastrointestinal roundworms, | | |
| 쓩 | Noromectin® Injection for Cattle and Swine | 035034 | 250ml | - ivermectin (1%) | lungworms, cattle grubs, sucking lice, mange mites | beef cattle* | 35 |
| Norbrook | Cattle and Swife | 032442 | 500ml | _ | lice, mange mites | cattle | |
| ž | | 114548 | 500ml | | | | |
| | Noromectin® Plus Injection for Cattle | 044799 | 1000ml | ivermectin (1% w/v) + clorsulon (10% w/v) | gastrointestinal roundworms, adult liver flukes, lungworms, cattle grubs, sucking lice, mange mites | beef cattle* | 21 |
| | Tauramox™ | 120771 | 50ml | moxidectin (1%) | gastrointestinal roundworms lungworms, cattle grubs, mites, lice | beef cattle* | 21 |
| | Moxisolv | 510019 | 500ML | moxidectin (1%) | gastrointestinal roundworms lungworms, cattle grubs, mites, lice | beef cattle* | 21 |
| | M 10, 1 | 501034 | 50ml | | gastrointestinal roundworms, | | |
| | Vetrimec [™] 1% Injection for Cattle and Swine | 504034 | 500ml | ivermectin (1%) | lungworms, cattle grubs, sucking lice, mange mites | beef cattle* | 35 |
| | Cattle and Swine | 505034 | 1000ml | | | | |

gastrointestinal roundworms, adult

liver flukes, lungworms, cattle grubs,

lungworms, cattle grubs, biting and

sucking lice, horn flies, mange mites

sucking lice, mange mites

gastrointestinal roundworms,

beef

beef

cattle*

cattle*

21

48

504035

Vetrimec™ Plus w/

Cattle

Cattle

Clorsulon Injection for

Vetrimec™ Pour-On for

500ml

504036 1000ml

510008 1L

503001 2x5L

ivermectin (1% w/v) +

ivermectin (5 mg/mL)

clorsulon (10% w/v)

Endectocides labeled for use against lice

| Mfr | Brand name | Item # | Unit | Active ingredient | Target parasites (see label for detailed list) | On- animal use | Pre-harvest interval (days) | |
|--------|----------------------------------|--------|--------|--|--|----------------------|-----------------------------------|--|
| | | 013334 | 100ml | | | | | |
| | Dectomax® Injectable Solution | 123794 | 250ml | doramectin (1%; 10 mg/mL) | gastrointestinal roundworms, lungworms, eye worms, cattle grubs, sucking lice, mange mites | beef cattle* | 35 | |
| | | 013336 | 500ml | | sucking lice, mange mites | | | |
| Zoetis | | 014120 | 1L | | gastrointestinal roundworms, | beef cattle* | | |
| Ž | Dectomax® Pour-On | 014121 | 2.5L | doramectin (0.5%; 5 mg/mL) | lungworms, eye worms, cattle grubs, biting and sucking lice, horn flies, | | 45 | |
| | | 027176 | 2x5L | | mange mites | | | |
| | | 121373 | 100ml | doramectin | gastrointestinal roundworms, | | | |
| | Valcor | 121374 | 2550ml | (0.5%; 5 mg/mL) + | lungworms, eye worms, cattle grubs, | beef | 15 | |
| | | 121375 | 500ml | levamisole hydrochloride (1500 mg/mL) | sucking lice, mange mites | cattle* | | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. *Not labeled for use on lactating dairy cattle.

Insecticides labeled for use against lice

| Mfr | Brand name | Item# | Unit | Active ingredient | Application method | On-animal use | Pre- harvest interval (days) |
|-------------------|---|--------|----------|-----------------------------------|---------------------------------------|--------------------------|---------------------------------------|
| ons | Martin's® Permethrin 10% Multipurpose Insecticide | 040738 | pint | permethrin (10%) | spray | beef and dairy cattle | 0 |
| Control Solutions | Martin's® Permethrin SFR Termiticide/Insecticide | 050606 | quart | permethrin (36.8%) | spray, backrubber | beef and dairy cattle | 0 |
| Cont | Vector-Ban™ Plus | 050619 | 0.5 gal. | permethrin (10%) + PBO (10%) | spray, dip, sponge | beef and dairy cattle | 0 |
| | Alba I V I O PM C V I O PM | 048597 | B30 | lambda-cyhalothrin | capsules for | beef and | (2.1 |
| | AIM-L VetCaps™ (for VetGun™) | 051114 | B150 | (1.5%) + PBO (7.5%) | VetGun | dairy cattle >600lbs.* | 42 days |
| et | | 113683 | 8 oz. | | | | |
| Durvet | Permethrin 10% Rapid Kill Insecticide Concentrate | 056747 | quart | permethrin (10.0%) | spray | beef and dairy cattle | 0 |
| | | 056793 | gallon | | | | |
| | Synergized Permethrin 1% Pour-On Insecticide | 043780 | gallon | permethrin (1.0%) + PBO (1.0%) | pour-on, mist spray, backrubber | beef and dairy cattle | 0 |

^{*}Not labeled for use on lactating dairy cattle.

Insecticides labeled for use against lice

| Mfr | Brand name | Item # | Unit | Active ingredient | Application method | On-animal use | Pre- harvest interval (days) |
|--------|---|--|-------------------|-------------------------------------|-------------------------|--|---------------------------------------|
| | Claure Lie ^M II Day Corlos attacks in a with ICD | 025819 | 0.5 gal. | diflubenzuron (3.0%) | | beef and | 0 |
| | Clean-Up™ II Pour-On Insecticide with IGR | 025820 | 2.5 gal. | + permethrin (5.0%) | pour-on | dairy cattle | 0 |
| | Co-Ral® Fly and Tick Spray | 043543 | 0.5 gal. | coumaphos (6.15%) | spray, backrubber | beef and dairy cattle older than 3 months | see label |
| | Co-Ral® Livestock Dust | 113738 | each | coumaphos (1%) | dust bag, shaker can | beef and dairy cattle | 0 |
| | CyLence® Pour-On Insecticide | 011474 011475 | 16 oz. 6 pints | - cyfluthrin (1%) | pour-on | beef and dairy cattle | 0 |
| | | 012680 | 16 oz. | /7 (0) | pour-on, | | |
| | Permectrin® CDS Pour-On Insecticide | 012681 | 0.5 gal. | permethrin (7.4%) _ + PBO (7.4%) | spray, | dairy cattle | 0 |
| Elanco | | 019317 | 2.5 gal. | | backrubber | | |
| Ш | Permectrin® II | 002394 | 8 oz. | normathrin (10%) | spray, | beef and | 0 |
| | remecum m | Spray 043543 0.5 gal. coumaphos (6.15%) spray, backrubber beef and dairy catter language in the language in th | dairy cattle | O | | | |
| | Permectrin™ Fly & Louse Dust | 047607 | 2 lb. | - pormothrin (0.25%) | dust bag, | beef and | 0 |
| | remection riy a Louse Dust | 047608 | 12.5 lb. | pennethin (0.23%) | shaker can | dairy cattle | |
| | Rabon™ 50 WP Insecticide | 056206 | 4 lb. | | spray | beef cattle* | 0 |
| | Ravap™ E.C.† | 013949 | gallon | (23.0%) + dichlorvos | | dairy cattle older than 6 | 0 |
| | Vapona® Concentrate Insecticide† | 058706 | 2.5 gal. | dichlorvos (40.2%) | spray | dairy cattle older than 6 | 1 |
| Ä | Ultra Boss® Pour-On Insecticide for Cattle, Sheep, Goats, and Horses | 019474 | 32 oz. | permethrin (5%) + PBO (5%) | pour-on, backrubber | beef and dairy cattle | 0 |
| Merck | Illtra Cabar™ Dour On locasticida | 121357 | 30 oz. | lambda-cyhalothrin | DOLLK 57 | boof cottle* | 0 |
| | Ultra Saber™ Pour-On Insecticide | 121354 | 5 liter | - (1%) + PBO (5%) | pour-on | beef cattle* | 0 |

^{*}Not labeled for use on lactating dairy cattle. †Restricted use insecticide.

Insecticides labeled for use against lice

| Mfr | Brand name | Item # | Unit | Active ingredient | Application method | On-animal use | Pre- harvest interval (days) |
|--------|---|--------|----------|--|--|-------------------------------------|---------------------------------------|
| | Evergreen® Pro 60-6 | 063831 | quart | natural pyrethrins - (6.0%) | spray | beef and | 0 |
| | Multi-Purpose Insecticide | 062001 | gal. | + PBO (60.0%) | оргау | dairy cattle | |
| | Evergreen® Pyrethrum Concentrate | 059359 | gallon | natural pyrethrins (5.0%; organic) | spray | organic beef and dairy cattle | 0 |
| MGK | Riptide® Waterbased Pyrethrin ULV | 052706 | 64 oz. | natural pyrethrins (5.0%) | spray | beef and dairy cattle | 0 |
| | Sector® Misting Concentrate | 091755 | gallon | permethrin (10.0%) + PBO (10.0%) | spray, dip, sponge | beef and dairy cattle | 0 |
| | LUD® DD 100 | 051790 | gallon | natural pyrethrins | | beef and | |
| | ULD® BP-100 | 051792 | 55 gal. | - (1%) + PBO (5%) | spray | dairy cattle | 0 |
| | Prozap® Insectrin Dust | 051624 | 2x12.5 | permethrin (0.25%) | dust bag, mechanical duster, shaker can | beef and dairy cattle | 0 |
| | | 085445 | 8 oz. | | | | |
| | Prozap® Insectrin X Concentrate | 186942 | 32 oz. | permethrin (10.0%) | spray, backrubber | beef and dairy cattle | 0 |
| _ | | 385280 | gallon | | | | |
| Neogen | Prozap® Backrubber & Pour-On Extra | 047967 | 2.5 gal. | permethrin (0.125%) + PBO (0.125%) | pour-on, backrubber | beef and dairy cattle | 0 |
| | Program® Protectus Pour On Inspecticide ICD | 118139 | 5 gal. | diflubenzuron (3.0%) + PBO (2.5%) + | DOUR OD | beef cattle* | 0 |
| | Prozap® Protectus Pour-On Insecticide-IGR | 118141 | 2.5 gal. | lambda-cyhalothrin (0.5%) | pour-on | peer carrie | |
| | StandGuard™ Pour-On Insecticide | 034615 | 900ml | gamma-cyhalothrin | pour-op | beef cattle* | 0 |
| | StandGuard Pour-Orrinsecticide | 044809 | 4.5L | (0.5%) | pour-on | beer carrie | |

^{*}Not labeled for use on lactating dairy cattle.

Insecticides labeled for use against lice

| Mfr | Brand name | Item # | Unit | Active ingredient | Application method | On-animal use | Pre- harvest interval (days) |
|---------|---|--------|----------|---|-------------------------------|--|---------------------------------------|
| | Cattle Armor™ 1% Permethrin Synergized Pour-On | 092220 | gallon | permethrin (1%) + | pour-on, mist spray, | beef and | 0 |
| | | 090883 | 55-gal. | PBO (1%) | backrubber | dairy cattle | |
| | | 117923 | 0.5 gal. | diflubenzuron (3.0%) | | | |
| | Inhibidor™ Insecticidal Pour-On | 117893 | 2.5 gal. | + PBO (2.5%) + lambda-cyhalothrin (0.5%) | pour-on | beef cattle* | 0 |
| Starbar | Prolate/Lintox-HD™ Insecticidal Spray & | 040713 | quart | natural pyrethrins (6.0%) + PBO (60%) | spray, backrubber spray | beef and non- lactating dairy cattle older than 3 months* | 3 |
| | Backrubber for Livestock | 043550 | gallon | | | | |
| | Pyronyl™ Crop Spray | 059286 | quart | | | | 0 |
| | гуюнун Сюр эргау | 059287 | gallon | | | | 0 |
| | UL-100 EC Insecticidal Spray | 059655 | gallon | natural pyrethrins (0.96%) | spray | beef and dairy cattle | 0 |
| | | 540004 | 2.5 gal. | - + PBO (9.60%) | | , | |
| Y-Tex | Brute® Pour-On Insecticide | 113549 | 16 oz. | permethrin (10%) | pour-on, backrubber | beef and dairy cattle | 0 |
| | Gardstar® 40% EC Livestock & Premise Insecticide | 039038 | quart | permethrin (40%) | spray, backrubber | beef and dairy cattle | 0 |
| | PYthon® Dust Livestock Insecticide | 050116 | 2 lb. | zeta-cypermethrin (0.075%) + PBO (0.150%) | dust bag, shaker can | beef and dairy cattle | 0 |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings, and safety information made available by the product's manufacturer. *Not labeled for use on lactating dairy cattle. ¹Restricted use insecticide.

Insecticides containing natural pyrethrins

| Mfr. | Brand name | Item # | Unit | Active ingredient | Formulation | Rate | |
|------------|--|--------|----------|---|-------------|---|--|
| Amrep Inc. | Country Vet Mosquito and Fly Spray (for use in automatic metered dispensers) | 026524 | 6.9 oz. | natural pyrethrins (1.76%) + PBO (5.00%) | aerosol can | see label | |
| Amre | Country Vet Farmgard Farm & Dairy Fly Spray | 038836 | 18.5 oz. | natural pyrethrins (0.50%) + PBO (4.00%) | | | |
| ± to | Dairy Bomb 55 | 051626 | | (0.50) | | | |
| Durvet | Dairy Bomb 55Z | 051625 | 25 oz. | natural pyrethrins (0.5%) + PBO (5.0%) | aerosol can | see label | |
| | | 063831 | quart | natural pyrethrins (6.0%) + | | 200 | |
| | EverGreen® Pro 60-6 | 062001 | gallon | PBO (60.0%) | | 2.0 fl. oz. per 1 gal. water | |
| | EverGreen® Pyrethrum Concentrate | 059359 | gallon | natural pyrethrins (5.0%; organic) | water-based | 3.0 fl. oz. per 1 gal. water | |
| MGK | Riptide® Waterbased Pyrethrin ULV | 052706 | 64 oz. | natural pyrethrins (5.0%) + | spray | Dilute 1 part concentrate with | |
| | | 111040 | 275 gal. | PBO (25%) | | 49 parts water. Apply 2 fl. oz. per adult animal. | |
| | LUD® DD 100 | 051790 | gallon | natural pyrethrins (1.0%) + | oil-based | 21 1 | |
| | ULD® BP-100 | 051792 | 55 gal. | PBO (5%) | spray | use undiluted | |
| | CT-75 Dairy Aerosol | 053003 | 26 oz. | natural pyrethrins (0.7%) + PBO (5.0%) | | | |
| Neogen | DyFly Aerosol Insecticide | 051690 | 25 oz. | natural pyrethrins (0.5%) + PBO (5.0%) | aerosol can | see label | |
| Ž | LD ///7® Insect Forger | 021366 | 20 oz. | natural pyrethrins (0.5%) + | | | |
| | LD-44Z® Insect Fogger | 043782 | 25 oz. | PBO (4.0%) | | | |
| Starbar | Di wan d™ Cwan Chara | 059286 | quart | natural pyrethrins (6%) + | water-based | 20 fl a= par1 and water | |
| Star | Pyronyl™ Crop Spray | 059287 | gallon | PBO (60%) | spray | 2.0 fl. oz. per 1 gal. water | |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings and safety information made available by the product's manufacturer. All for use on cattle. See label for complete listing and use directions.



Long-lasting protection

MoxiSolv[™] Injection (moxidectin)

Ready-to-use injectable parasiticide containing 1% moxidectin for use in beef and non-lactating dairy cattle. For treatment of infections and infestations due to internal and external parasites in cattle.



IMPORTANT SAFETY INFORMATION: Cattle must not be slaughtered for human consumption within 21 days of treatment. This product is not approved for use in female dairy cattle 20 months of age or older, including dry dairy cows. Do not use in sick, debilitated or underweight animals. Do not use in calves less than 8 weeks of age.

| Mfr | Brand name | Active ingredient | Dose (see label for details) | Target parasites | Pre- harvest interval (days) |
|--------|---|--|--|---|---------------------------------------|
| Z | DectoGard Pour-On™ | doramectin 0.5 w/v (5 mg/mL) | Administer to cattle topically at a dosage of 500 mcg doramectin per kg (227mcg/lb) of body weight. Apply topically along the mid-line of the back in a narrow strip between the withers and tailhead using a recommended applicator. Not for use in female dairy cattle 20 months of age or older. Do not use in calves to be processed for veal. | gastrointestinal roundworms, lungworms, eye worms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | 45 |
| Aurora | EpriGard Pour-On™ | eprinomectin (5 mg/mL) | The product is formulated only for external application to beef and dairy cattle. The dose rate is 1 mL/10 kg (22 lb) of body weight. The product should be applied topically along the backline in a narrow strip extending from the withers to the tailhead. Do not use in calves intended for veal. | gastrointestinal roundworms, lungworms, gastrointestinal roundworms, lungworms, eye worms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | 0 |
| | Bimectin® Injection for Cattle & Swine | ivermectin (1%) | Administer only by subcutaneous injection under the loose skin in front of or behind the shoulder at the recommended dose level of 200 mcg ivermectin per kilogram of body weight of cattle. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | gastrointestinal roundworms, lungworms, cattle grubs, sucking lice, mange mites (see label for detailed list) | 35 see label |
| Bimeda | Bimectin® Pour-On for Cattle | ivermectin (5 mg/mL) | The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tail-head using a recommended applicator gun. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | gastrointestinal roundworms, lungworms, cattle grubs, biting and suck-ing lice, horn flies, mange mites (see label for detailed list) | 48 see label |
| | LevaMed™ Soluble Drench Pow-der | levamisole hy- drochloride (46.8 g/packet) | Administer orally as a standard or concentrated drench solution us-ing recommended applicator. See label for dosage based on body weight. Do not administer to dairy animals of breeding age | stomach worms, intesti-nal worms, lungworms (see label for a de-tailed list of worm species and stages) | 2 see label |
| Elanco | Cydectin® Injectable Solution for Beef and Nonlactating Dairy Cattle | moxidectin (10 mg/ml) | Administer by subcutaneous injec-tion under the loose skin in front of or behind the shoulder. The recommended rate is 1 ml for each 110 lb (50 kg) body weight to provide | gastrointestinal roundworms, lungworms, cattle grubs, sucking lice, mange mites (see label for detailed list) | 21 see label |
| Elar | Cydectin® Pour-On for Beef and Dairy Cattle | moxidectin (5 mg/mL) | Directly apply to the hair and skin in a narrow strip extending along the top of the back from the withers to the tailhead using a recommended applicator gun. | gastrointestinal roundworms, lungworms, cattle grubs, sucking lice, mange mites (see label for detailed list) | 0 see label |

| Mfr | Brand name | Active ingredient | Dose (see label for details) | Target parasites | Pre- harvest interval (days) |
|-------------------------|--|---------------------------------------|--|--|---------------------------------------|
| Boehringer Ingelheim | EPRINEX® Pour-On for Cattle | eprinomectin (5 mg/mL) | The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead using a recommended applicator. Do not use in calves intended for veal. | gastrointestinal roundworms, lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | 0 see label |
| | IVOMEC® 1% Injection for Cattle and Swine | ivermectin (1%) | IVOMEC [®] 1% Injection should be given only by subcutaneous injection under the loose skin in front of or behind the shoulder of cattle at the recommended dose level of 200 mcg of ivermectin per kilogram of body weight. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | gastrointestinal roundworms, adult liver flukes, lungworms, cattle grubs, sucking lice, mange mites (see label for detailed list) | 35 see label |
| Boehringer Ingelheim | IVOMEC® Plus Injection for Cattle | (1% w/v) + clor- sulon (10% w/v) | IVOMEC® Plus should be given only by subcutaneous injection at a dose volume of 1 mL per 110 lb (50 kg) body weight. This volume will deliver 10 mg ivermectin and 100 mg clorsulon. Inject the solution subcutaneously (under the skin) behind the shoulder. Do not use in female dairy cattle of breed-ing age. Do not use in calves to be processed for veal. | gastrointestinal roundworms, adult liver flukes, lungworms, cattle grubs, sucking lice, mange mites (see label for detailed list) | 21 see label |
| Boehri | IVOMEC® Pour-On for Cattle | ivermectin (5 mg/mL) | The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead using a recommended applicator. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | gastrointestinal roundworms, lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | 48 see label |
| | Synanthic® Bovine Dewormer Suspension, 22.5% | oxfendazole (22.5%; 225 mg/ mL) | Administer orally by accurate dose syringe at the rate of 1 mL per 110 lb of body weight. Do not use in female dairy cattle of breeding age. | stomach worms, intestinal worms, lungworms (see label for a detailed list of worm species and stages) | 7 see label |

| Mfr | Brand name | Active ingredient | Dose (see label for details) | Target parasites | Pre- harvest interval (days) |
|------------|---|--|---|--|---------------------------------------|
| | Agri-Mectin® Injection for Cattle and Swine | ivermectin (5 mg/mL) | Administer only by subcutaneous injection under the loose skin in front of or behind the shoulder at the recommended dose level of 200 mcg ivermectin per kilogram of body weight of cattle. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | gastrointestinal roundworms, lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | 35 see label |
| Huvepharma | Agri-Mectin® Injection for Cattle and Swine | ivermectin (5 mg/mL) | The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead using a recommended applicator gun. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | gastrointestinal roundworms, lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | 48 see label |
| | Prohibit® Soluble Drench Powder (Packet) | levamisole hydrochloride (46.8 g/packet) | Administer orally as a standard or concentrated drench solution using recommended applicator. See label for dosage based on body weight. Do not administer to dairy animals of breeding age. | stomach worms, intestinal worms, lungworms (see label for a detailed list of worm species and stages) | 2 see label |

| Mfr | Brand name | Active ingredient | Dose (see label for details) | Target parasites | Pre- harvest interval (days) |
|-------------------|---|------------------------------------|--|--|---------------------------------------|
| | Safe-Guard® 20% Salt: Free-Choice Mineral (Beef and Dairy Cattle) | fenbendazole (0.5%; 2.27 g/lb) | To be fed to cattle for 3 to 6 days. Amount is based on 0.10 lb (1.6 oz) total consumption per 100 lb body weight to deliver a dosage of 2.27 mg fenbendazole per pound body weight. | | 13 |
| | Safe-Guard® Beef & Dairy Cattle Dewormer Paste 10% | fenbendazole (10%; 100 mg/g) | Administer orally; 5 grams of paste per 220 pounds body weight. Use only dispensing gun developed for this product. | | 8 |
| | Safe-Guard® Dewormer for Beef & Dairy Cattle and Goats Suspension 10% | fenbendazole (100 mg/mL) | Administer orally; 2.3 milliliters of suspension per 100 pounds body weight. Use drench gun developed for this product. Do not use in calves to be processed for veal. | | 8 see label |
| Merck | Safe-Guard® Medicated Dewormer for Beef & Dairy Cattle 0.5% Alfalfa-Based Pellets | fenbendazole (0.5%; 2.27 g/lb) | Five (5) mg fenbendazole per kg body weight in a one (1) day treatment (2.27 mg fenbendazole per pound of body weight). | stomach worms, intestinal worms, lungworms (see label for a detailed list of worm species and stages) | 13 |
| | Safe-Guard® Medicated Dewormer for Beef & Dairy Cattle, & Swine (0.5% Top Dress Pellets 10 Lbs) | fenbendazole (0.5%; 2.27 g/lb) | | | 13 |
| | Safe- Guard® Medicated Dewormer for Beef Cattle (En-pro- al® Molasses Block) | fenbendazole (750 mg/lb) | 1.67 mg fenbendazole per kg body weight per day for three (3) days. Total dose for the three (3) day period of 5 mg fenbendazole per kg of body weight (2.27 mg fenbendazole per pound). | | 11 |
| MWI Animal Health | Safe-Guard® 1.96% Pellets (Fenbendazole) | fenbendazole (1.96%; 8.89 g/lb) | See label for details on how to mix with feed. Five (5) mg fenbendazole per kg body weight in a one (1) day treatment (2.27 mg fenbendazole per pound of body weight). | | 13 see label |
| | Safe-Guard [®] Medicat- ed Dewormer for Beef & Dairy Cattle, & Swine (0.5% Top | fenbendazole (1.96%; 8.89 g/lb) | See label for details on how to mix with feed. Five (5) mg fenbendazole per kg body weight in a one (1) day treatment (2.27 mg fenbendazole per pound of body weight). | | 13 see label |



| Mfr | Brand name | Active ingredient | Dose (see label for details) | Target parasites | Pre- harvest interval (days) |
|----------|--|---|---|---|---------------------------------------|
| | Eprizero® Pour-On for Beef and Dairy Cattle | eprinomectin (5 mg/mL) | The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead using a recommended applicator. Do not use in calves intended for veal. | gastrointestinal round-worms, lungworms, cattle grubs, biting | 0 |
| | Noromectin® Injection for Cattle and Swine | ivermectin (1%) | Administer only by subcutaneous injection under the loose skin in front of or behind the shoulder at the recommended dose level of 200 mcg ivermectin per kg of body weight. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | - and sucking lice, horn flies, mange mites (see label for detailed list) | 35 |
| Norbrook | Noromectin® Plus Injection for Cattle | ivermectin (1% w/v) + clorsulon (10% w/v)\ | Noromectin Plus should be given only by subcutaneous injection at a dose volume of 1 mL per 110 lb (50 kg) body weight. This volume will deliver 10 mg ivermectin and 100 mg clorsulon. Inject the solution subcutaneously behind the shoulder. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | Gastrointestinal roundworms, adult liver flukes, lungworms, cattle grubs, sucking lice, mange mites (see label for detailed list) | 21 |
| | Noromectin® Pour-On for Cattle | ivermectin (5 mg/mL) | The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead using a recommended applicator. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | gastrointestinal round-worms, lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | 48 |
| | Tauramox™ | moxidectin (10 mg/mL) | The recommended rate of administration is 1 mL for each 110 lb (50 kg) body weight to provide 0.2 mg moxidectin/2.2 lb (0.2 mg/kg) body weight. Not for use in female dairy cattle 20 months of age or older (including dry dairy cows), veal calves, and calves less than 8 weeks of age. | gastrointestinal roundworms, lungworms, cattle grubs, mites, lice (see label for detailed list) | 21 |
| One | MoxiSolv™ | moxidectin (10 mg/mL) | The recommended rate of administration is 1 mL for each 110 lb (50 kg) body weight to provide 0.2 mg moxidectin/2.2 lb (0.2 mg/kg) body weight. Not for use in female dairy cattle 20 months of age or older (including dry dairy cows), veal calves, and calves less than 8 weeks of age. | gastrointestinal roundworms, lungworms, cattle grubs, mites, lice (see label for detailed list) | 21 |
| VetOne | Vetrimec™ 1% Injection for Cattle and Swine | ivermectin (1%) | Administer only by subcutaneous injection under the loose skin in front of or behind the shoulder at the recommended dose level of 200 mcg ivermectin per kilogram of body weight. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | gastrointestinal round-worms, lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | 35 |

| Mfr | Brand name | Active ingredient | Dose (see label for details) | Target parasites | Pre- harvest interval (days) |
|--------|--|---|---|---|---------------------------------------|
| VetOne | Vetrimec® Plus w/ Clorsulon Injection for Cattle | ivermectin (1% w/v) + clorsulon (10% w/v) | Vetrimec Plus should be given only by subcutaneous injection at a dose volume of 1 mL per 110 lb (50 kg) body weight. This volume will deliver 10 mg ivermectin and 100 mg clorsulon. Inject the solution subcutaneously (under the skin) behind the shoulder. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | Gastrointestinal roundworms, adult liver flukes, lungworms, cattle grubs, sucking lice, mange mites (see label for detailed list) | |
| | Vetrimec™ Pour-On for Cattle | ivermectin (5 mg/mL) | The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead using a recommended applicator. Do not use in female dairy cattle of breeding age. Do not use in calves to be processed for veal. | gastrointestinal roundworms, lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | |
| Zoetis | Dectomax® Injectable Solution | doramectin (1%; 10 mg/mL) | Administer Dectomax® injectable solution by the subcutaneous (SC) or intramuscular (IM) route. SC injections should be administered under the loose skin in front of or behind the shoulder. IM injections should be administered into the mus-cular region of the neck. Recommended dosage is 200 mcg doramectin per kg (91 mcg/lb) of body weight. Not for use in female dairy cattle 20 months of age or older. Do not use in calves to be processed for veal. | gastrointestinal roundworms, lungworms, eye worms, cattle grubs, sucking lice, mange mites (see label for detailed list) | |
| | Dectomax® Pour-On | doramectin (0.5%; 5 mg/mL) | Administer Dectomax® Pour-On solution to cattle topically at a dosage of 500 mcg doramectin per kg (227 mcg/lb) of body weight. Apply topically along the mid-line of the back in a narrow strip between the withers and tailhead using a recommended applicator. Not for use in female dairy cattle 20 months of age or older. Do not use in calves to be processed for veal. | gastrointestinal roundworms, lungworms, eye worms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | |
| | Valbazen Suspension | albendazole (11.36%; 113.6 mg/ mL | Administer orally to cattle at the recommended rate of 4 mL/100 lb of body weight. Do not use in female dairy cattle of breeding age. | stomach worms, intestinal worms, lungworms, liver flukes (see label for a detailed list of worm species and stages) | |
| | Valcor® | doramectin (5 mg/mL) + levamisole hydrochloride (150 mg/mL) | Inject subcutaneously in the neck as a single dose at a dosage of 1 mL per 55 lb. of body weight. Do not inject more than 10 mL per injection site. Not for use in female dairy cattle 20 months of age or older, including dry dairy cows; not for use in beef calves less than 2 months of age, dairy calves, and veal calves. | gastrointestinal roundworms, lungworms, eye worms, cattle grubs, sucking lice, mange mites (see label for detailed list) | 15 |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings and safety information made available by the product's manufacturer.



Anthelmintics for beef cattle in open range only

| Mfr | Brand name | Active ingredient | Dose | Target parasites | Pre- harvest interval (days) |
|----------------------|--|----------------------|--|--|---------------------------------------|
| Boehringer Ingelheim | LongRange™ Extended- Release Injectable Parasiticide | eprinomectin (5%) | LongRange™ (eprinomectin) should be given only by subcutaneous injection in front of the shoulder at the recommended dosage level of 1 mg eprinomectin per kg body weight (1 mL per 110 lb body weight). Each mL of Longrange contains 50 mg of eprinomectin, sufficient to treat 110 lb (50 kg) body weight. Divide doses greater than 10 mL between two injection sites to reduce occasional discomfort or site reaction. Not for use in female dairy cattle 20 months of age or older, including dry dairy cows. Not for use in calves to be processed for veal. Not for use in breeding bulls, or in calves less than 3 months of age. Not for use in cattle managed in feedlots or under intensive rotational grazing. CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian. | gastrointestinal roundworms, lungworms, cattle grubs, mites (see label for detailed list) | 48 |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings and safety information made available by the product's manufacturer.

Anthelmintics for dairy cattle

| Mfr | Brand name | Active ingredient | Dose | Target parasites | W/D (| D (days) | |
|-------------------------|--|---------------------------|---|--|-------|-------------------|--|
| | | | | | Milk | Meat | |
| Aurora | EpriGard Pour-On™ | eprinomectin (5 mg/mL) | The product is formulated only for external application to beef and dairy cattle. The dose rate is 1 mL/10 kg (22 lb) of body weight. The product should be applied topically along the backline in a narrow strip extending from the withers to the tailhead. Do not use in calves intended for veal. | gastrointestinal roundworms, lungworms, gastrointestinal roundworms, lungworms, eye worms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | 0 | 0 see label | |
| Elanco | Cydectin® Pour-On for Beef and Dairy Cattle | moxidectin (5 mg/mL) | Directly apply to the hair and skin in a narrow strip extending along the top of the back from the withers to the tail-head using a recommended applicator gun. The recommended rate of administration is 1 mL for each 22 lb (10 kg) body weight which provides 0.5 mg moxidectin for each 2.2 lb (0.5 mg/kg) body weight. Not for use in veal calves. | | 0 | 0 see label | |
| Boehringer Ingelheim | EPRINEX® Pour-On for Cattle | eprinomectin (5 mg/mL) | The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a nar-row strip extending from the withers to the tailhead using a recommended applicator. Do not use in calves intended for veal. | | | 0 see label | |

Anthelmintics for dairy cattle

| Mfr | Brand name | Active ingredient | Dose | Target parasites | W/D (| days) |
|---------|---|---------------------------------------|---|--|-------|--------------------|
| | | | | | Milk | Meat |
| | Safe-Guard® 20% Salt: Free- Choice Mineral (Beef and Dairy Cattle) | fenbendazole (0.5%; 2.27 g/ lb) | To be fed to cattle for 3 to 6 days. Amount is based on 0.10 lb (1.6 oz) total consumption per 100 lb body weight to deliver a dosage of 2.27 mg fenbendazole per pound body weight. | | | 13 |
| | Safe-Guard® Beef & Dairy Cattle Dewormer Paste 10% | fenbendazole (10%; 100 mg/g) | Administer orally; 5 grams of paste per 220 pounds body weight. Use only dispensing gun developed for this product. | | | 8 see label |
| | Safe-Guard® Dewormer for Beef & Dairy Cattle and Goats Suspension 10% | fenbendazole (100 mg/mL) | Administer orally; 2.3 milliliters of sus-pension per 100 pounds body weight. Use drench gun developed for this product. Do not use in calves to be processed for veal. | stomach worms, | | 8 see label |
| Merck | Safe-Guard® Medicated Dewormer for Beef & Dairy Cattle 0.5% Alfalfa-Based Pellets | fenbendazole (0.5%; 2.27 g/ lb) | Five (5) mg fenbendazole per kg body weight in a one (1) day treatment (2.27 mg fenbendazole per pound of body weight). | intestinal worms, lungworms (see label for a detailed list of worm species and stages) | | 13 see label |
| | Safe-Guard® Medicated Dewormer for Beef & Dairy Cattle, & Swine (0.5% Top Dress Pellets 10 Lbs) | fenbendazole (0.5%; 2.27 g/ lb) | Five (5) mg fenbendazole per kg body weight in a one (1) day treatment (2.27 mg fenbendazole per pound of body weight). | | 0 | 13 see label |
| | Safe-Guard® 1.96% Meal (Fen-bendazole) | fenbendazole (1.96%; 8.89 g/lb) | See label for details on how to mix with feed. Five (5) mg fenbendazole per kg body weight in a one (1) day treatment (2.27 mg fenbendazole per pound of body weight). | | | 13 see label |
| | Safe-Guard® 1.96% Pellets (Fen-bendazole) | fenbendazole (1.96%; 8.89 g/lb) | See label for details on how to mix with feed. Five (5) mg fenbendazole per kg body weight in a one (1) day treatment (2.27 mg fenbendazole per pound of body weight). | | | 13 see label |
| Norbrok | Eprizero® Pour-On for Beef and Dairy Cattle | eprinomectin (5 mg/mL) | The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead using a recommended applicator. Do not use in calves intended for veal. | gastrointestinal roundworms, lungworms, cattle grubs, biting and sucking lice, horn flies, mange mites (see label for detailed list) | | 0 see label |

Prior to using any product mentioned in this article, carefully read and follow all available instructions, warnings and safety information made available by the product's manufacturer.



Colostrum product chart

| | trum product chart | | | | | | | | | | | |
|---------------------------------------|---|--------------|------------------|---------------|-----------|------------------|-----------|---------------------|---------------------------|-------------------|--------------------|-----------------------------|
| | | | | USDA Licensed | lgG Claim | Globulin Protein | Crude Fat | E.coli K99 Antibody | Bovine Maternal Colostrum | Bovine Milk-Based | Bovine Serum-Based | Colostral Fat (No additive) |
| Mfr | Product | Size | SKU | | | | | | | | | |
| | Lifeline® Nourish™ Beef Colostrum Replacer | 500g | 048392 | | | 100g | 25% | | | | • | |
| APC | Lifeline® Protect™ Beef Colostrum Supplement | 454g | 046798 | | | 50g | 20% | | | | • | |
| | Lifeline® Rescue™ High-Level Colostrum Replacer | 550g | 046031 | | | 150g | 15% | | | | • | |
| Cuprem, Inc. | CL-Cow Replacer | 250g | 002697 | | | | 9% | | | • | | |
| Imutek | Immu-Start 50® Bovine IgG | 400g | 040474 | • | 50g | 50g | ND | 1 dose | • | • | | |
| ts | Calf Solutions® Ultra Start® 150 Replacer | 350g | 039547 | | | 150g | 10% | | | • | | |
| Milk Products | Calf Solutions® Ultra Start® 150 Plus Replacer | 350g | 039548 | | | 150g | 10% | | | ٠ | | |
| Pro | Sav-A-Caf® Ultra Start® Multi Colostrum Supplement | 454g | 052686 | | | 30g | 22% | | | • | | |
| | Calf's Choice Total® Gold Colostrum Supplement | 225g | 037619 | • | 60g | 60g | 14% | | • | | | • |
| _ | Calf's Choice Total® HiCal Colostrum Replacer | 700g 40lb | 037630 092395 | • | 100g | 100g | 20% | | • | | | • |
| SCCL | Colostrum 200™ Bovine IgG Replacer | 750g | 092872 | • | 200g | 200g | 14% | | • | | | • |
| | Colostrx® CR Colostrum Replacer | 700g | 034642 | • | 100g | 100g | 20% | | • | | | • |
| | Colostrx® CS Colostrum Supplement | 350g | 024422 | • | 50g | 50g | 20% | | • | | | • |
| | PureStart™ Colostrum Bovine IgG (OMRI) listed | 750g | 064958 | • | 100g | 100g | 20% | | • | | | • |
| S S S S S S S S S S S S S S S S S S S | Nursemate® 50 Colostrum Supplement | 300g | 065219 | | | 50g | 10% | | • | | | • |
| Sterling Technology | Nursemate® 100 Colostrum Replacer | 400g | 065220 | | | 100g | 14% | | • | | | • |
| Tec | Nursemate® PLUS 150 Colostrum Replacer | 600g | 065222 | | | 150g | 13% | | • | | | • |
| VetOne | Bovine IgG Replacer 115™ | 640g | 501161 | • | 115g | 115g | 16% | | • | | | • |
| Vet | Bovine IgG Supplement 57.5™ | 320g | 501160 | • | 57.5g | 57.5g | 16% | | • | | | • |

PROTECTING THE HERD'S HEALTH

WITHOUT ANTIBIOTICS or STEROIDS

FOR PROTECTION

FOR TREATMENT

MANNHEIMIA HAEMOLYTICA - PASTEURELLA MULTOCIDA BACTERIN with TYPES 1 AND 2 FOR M. H.

SALMONELLA DUBLIN-TYPHIMURIUM BACTERIN

THE **ONLY** DUBLIN-TYPHIMURIUM BACTERIN
ON THE MARKET

BOVI-SERA has natural antibodies for passive, short-term protection or treatment against SCOURS, PNEUMONIA and SHIPPING FEVER.









THE PEAK OF QUALITY SINCE 1923

303-295-7527 www.colorado-serum.com



VALCOR™

(doramectin and levamisole injection)

(5 mg/mL doramectin, 150 mg/mL levamisole hydrochloride)

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

INDICATIONS:

VALCOR^M is indicated for the treatment and control of the following species of parasites in beef cattle two months of age and older and in replacement dairy heifers less than 20 months of age. Not for use in beef bulls intended for breeding over 1 year of age. dairy calves. and yeal calves.

Gastrointestinal Roundworms (adults and fourth stage larvae): Ostertagia ostertagi (including inhibited larvae), O. Ivrata, Haemonchus placei, Trichostrongylus axei, T. colubriformis, T. longispicularis*, Cooperia oncophora, C. pectinata*, C. punctata, C. sumabada, Bunostomum phibeotomum*, Strongyloides papillosus*, Oesophagostomum radiatum, Trichuris spp.*, Nematodirus helvetianus*. Lung-worms (adults) and fourth stage larvae). Dictyocaulus viviparus. Eyeworms (adults): Thelazia spp. Grubs (parasitic stages): Hypoderma bovis, H. lineatum. Sucking Lice: Haematopinus eurysternus, Linognathus vituli, Solenopotes capillatus. Mange Mites: Psoroptes bovis, Sarcoptes scabiei. **Adults only WARNINGS AND PRECAUTIONS:

WITHDRAWAL PERIODS AND RESIDUE WARNINGS:

Cattle must not be slaughtered for human consumption within 15 days following last treatment with this drug product. Not for use in female dairy cattle 20 months of age or older, including dry dairy cows; use in these cattle may cause drug residues in milk and/or in calves born to these cows or heifers. Not for use in beef calves less than 2 months of age, dairy calves, and veal calves. A withdrawal period has not been established for this product in pre-ruminating calves.

User Safety Warnings:

Ober Sarely Warnings.

Not for human use. Keep out of reach of children. If accidental eye contact occurs, flush eyes immediately with water for 15 minutes and seek medical attention. If wearing contact lenses, flush eyes immediately with water before removing lenses then continue rinsing for at least 15 minutes. Do not eat, drink or smoke while handling the product. Wash hands after use. Take care to avoid accidental self-injection. If accidental injection occurs, seek medical attention and provide product package insert to medical professional. To obtain a Safety Data Sheet(s), contact Zoetis Inc. at 1-888-963-8471 or www.zoetis.com.

Animal Safety Warnings and Precautions:

Use of levamisole in cattle treated in the last few days with cholinesterase inhibitors such as organophosphates or with morantel may enhance the toxic effects of levamisole. Use together with caution.

Destruction of *Hypoderma* larvae (cattle grubs) at the period when these grubs are

Destruction of Hypoderma larvae (cattle grubs) at the period when these grubs are in vital areas may cause undesirable host-parasite reactions including the possibility of fatalities. Killing H. Interactum when it is in the tissue surrounding the gullet may cause bloat, killing H. bow's when it is in the vertebral canal may cause staggering or paralysis. These reactions are not specific to treatment with VALCOR™ and can occur with any successful treatment of grubs. Cattlet shull be treated either before or after these stages of grub development. Consult your veterinarian concerning the proper time for treatment. Follow recommended dosage carefully. Reproductive safety has not been evaluated in bulls intended for breeding.

ADVERSE REACTIONS:

ADVENSE FRACTIONS:

This product is likely to cause swelling at the injection site. Tissue damage at the injection site may also occur, including possible granulomas and necrosis. These reactions have resolved without treatment. Local tissue reaction may result in trim loss of edible tissue at slaughter. A single death attributed to clostridial infection associated with the injection of VALCOR™ was reported in a non-pivotal effectiveness study. Observe cattle for injection site reactions. If injection site reactions are suspected, consult your veterinarian. This product is not for intravenous or intramuscular use. Hypersalivation may be observed; however, this reaction will disappear within a few hours. If this condition persists, a veterinarian should be consulted.

Contact Information:

Contact Zoetis Inc. at 1-888-963-8471 or www.zoetis.com. To report suspected adverse drug experiences, contact Zoetis Inc. at 1-888-963-8471. For additional information about reporting adverse drug experiences for animal drugs, contact FDA at 1-888-FDA-VETS or http://www.fda.gov/reportanimalae.

TARGET ANIMAL SAFETY:

Margin of Safety: Subcutaneous administration of VALCOR™ was well tolerated in calves as young as 3 months of age at 1, 2, or 3 times the recommended dose. Dose-dependent post-dose hypersalivation was seen in all treated groups compared to the controls. All cases of hypersalivation were mild, transient, and resolved without further medical intervention. Dose-related injection site reactions were observed, and those in the 1X group resolved between 21 and 28 days post injection. Injection site reactions were brighted in the 1X group resolved between 21 and 28 days post injection. Findings from the injection sites included swelling, edema, inflammation, muscle necrosis and fibrosis.

Female Reproductive Safety: The reproductive safety of VALCOR™ was established in two studies with female cattle. First, a single dose of VALCOR™ was administered subcutaneously at 3 times the recommended dose at times coinciding with folliculogenesis, implantation, or organogenesis, and had no effects on conception, calving, abortion, adtillbirth rates, and post-natal viability up to 30±2 days post-calving. There were no congenital abnormalities. The only test article-related change was an increase in incidence and duration of swelling at injection sites compared with control, but all swellings eventually resolved. In a second study, a single dose of VALCOR™ administered subcutaneously at 3 times the recommended dose at either early or late gestation had no effects on calving, abortion, and stillbirth rates, and post-natal viability up to 30±2 days post-calving. One control calf and two treated calves were born with congenital abnormalities and did not survive. These were not determined to be test article-related. The only test article-related change was an increase in incidence and duration of swelling at injection sites, but all swellings eventually resolved. Not for use in bulls intended for breeding over 1 year of age, as reproductive safety has not been evaluated.

HOW SUPPLIED:

VALCOR™ is available in 100 mL, 250 mL and 500 mL multi-dose, rubber-capped glass vials.

STORAGE, HANDLING, AND DISPOSAL:

Store below 25°C (77°F). Do not expose to light for extended periods of time. Do not contaminate water by direct application or by improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

Approved by FDA under NADA # 141-553

zoetis

Distributed by: Zoetis Inc. Kalamazoo, MI 49007

All trademarks are the property of Zoetis Services LLC or a related company or a licensor unless otherwise noted. © 2024 Zoetis Services LLC. All rights reserved. VLC-00028R1

See brief summary of Prescribing Information attached.

TOUGH ON TOUGH WORMS.

You can achieve effective parasite control in one product, where before you may have needed two. Valcor (doramectin and levamisole injection) is the first prescription cattle dewormer with two active ingredients in one dose. It's never been easier to be tough. Get tough at ValcorTough.com

IMPORTANT SAFETY INFORMATION: Do not treat cattle with Valcor within

15 days of slaughter. Not for use in female dairy cattle 20 months of age or older,

including dry dairy cows; not for use in beef calves less than 2 months of age,

dairy calves, and veal calves. Safety has not been evaluated in breeding bulls.

Use with caution in cattle treated with cholinesterase inhibitors. This product

is likely to cause injection site swelling; tissue damage (including granulomas and necrosis) may occur. These reactions have resolved without treatment.



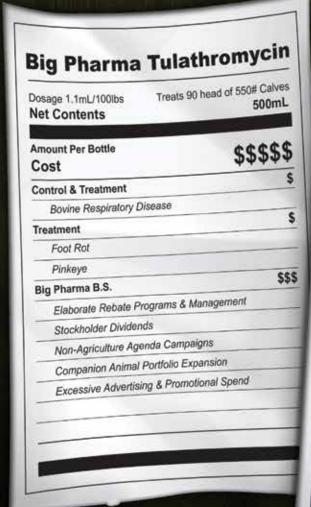


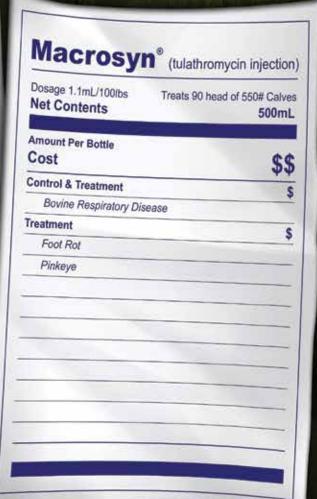
Calving checklist

| Amii | no Acias/ | Anti | DIOTICS | Anti | alarmeals | Ш | ENDOVAC-Beel |
|------|-------------------------------------|------|--|------|--|------|-----------------------------|
| Elec | trolytes/Fluids | | Ampicillin Trihydrate (Rx) | | Anti-Diarrheal Bolus | | ENDOVAC-Dairy |
| | Amcalcilyte Forte | | Arovyn™ (Rx) | | Bismuth Oral Suspension | | Master Guard® 10 HB |
| | Amino Acid Concentrate | | Baytril® 100 (Rx) | | Bolisorb" Jr./Max | | One Shot® |
| | Amino Acid Oral Solution | | Bio-Mycin® 200 (Rx) | | Bovi Care [™] -cp | | Presponse® HM |
| | Bovine BlueLite® 2Bw | | Calf Scour Bolusv | | Endosorb® Bolus/ | | Scour Bos® 4 |
| | BlueLite® C for Calves | | CeftiFlex® Powder (Rx) | | Suspension | | Scour Bos® 9 |
| | BlueLite® Replenish | | Draxxin® (Rx) | | EPIC® | | ScourGuard® 4 KC |
| | for Calves | | Draxxin® KP (Rx) | | Fight Strong [™] for Calf Stress | | ScourGuard® 4K |
| | Blue Ribbon Calf Electrolytes | | Enroflox® 100 (Rx) | П | First Defense® Bolus | | Triangle® 5 |
| | Blue Ribbon Calf | | Excede® (Rx) | | First Defense® Gel | | Triangle® 10 HB |
| | Electrolytes [™] Gel | | Excenel® RTU EZ (Rx) | | Tube/90-Dose Bulk | | Ultrabac® 7 |
| | Bounce Back® | | Increxxa [*] (Rx) | | First Defense® | | Ultrabac® 8 |
| | Calcium Plus | | Liquamycin® LA-200®v | | Tri-Shield | | Vira Shield® 6 |
| | Calcium Gluconate | | Macrosyn [™] (Rx) | | Kaolin Pectin 4 | | Vira Shield® 6 + L5 |
| | 23% Solution | | Micotil® (Rx) | | Lifeline® Intervene | | Vira Shield® 6 + L5 HB |
| | Calf Quencher | | Naxcel® (Rx) | | Pect-A-Guard Plus® | Calf | Supplies |
| | Calf Restart One-4® | | Noromycin 300 LA (Rx) | | Tri-Pectate® Paste/ Capsules | | Calf Bottle - Complete |
| | CalPlus" Solution (Rx) | | Nuflor® (Rx) | | Capsules | | Calf Claim" |
| | CMPK Solution | | PenOne Pro [™] (Rx) | Anti | serums/Biologicals | | |
| | CMPK Slow Release Bolus | | Polyflex® (Rx) | | Amplimune" | | Calf Niana |
| | Diaque [®] for Calves | | Resflor Gold® (Rx) | | Bovilis® Cavalry® 9 | | Calf Nipple Fluid Feeder |
| | Energy Drench | | Sulfadimethoxine | | Bovilis® Coronavirus | | Orphan-No-More |
| | Entrolyte® H.E. | | 12.5% Oral Solution (Rx) | | Bovilis® Covexin® 8 | | Orphan-No-More |
| | EPIC® Calf Electrolyte | | TC Vet 324" Soluble Powder (Rx) | | Bovilis® Guardian® | Deli | very Assistance |
| | Glucaminolyte Forte | П | Terramycin® Scours | | Bovilis® Nasalgen 3 | | Calf Eze Fetal Extractor |
| | Hydra-Lyte® | | Tablet (Rx) | | Bovilis® Nasalgen® 3-PMH | | Calf Snare |
| | NutriVed [®] EnerGel Forte | | Tylan® 200 (Rx) | | Bovilis® Vision® 8 | | Dr. Frank's Fetal Extractor |
| | Lactated Ringer's (Rx) | | Tylan® 50 (Rx) | | Bovine Pili Shield® | | Hercules Calf Puller |
| | Re-Sorb® | | Vetrimycin [®] 200 (Rx) | | Bovine Pili Shield®+C | | Vink Calf Puller |
| | Sky High Energy | | VetriPen (Rx) | | Bovi-Sera Serum | | |
| | Sterile Saline Solution (Rx) | | Zactran® (Rx) | | Anitbodies | | |
| | | | Zuprevo [™] 18% <mark>(Rx)</mark> | | C&D Antitoxin [™] | | |
| | | | | | Calf-Guard® | | |
| | | | | | Cattlemaster Gold FP® 5 | | |
| | | | | | Cattlemaster Gold FP® 5 LP | | |

Calving checklist

| Delivery S | Supplies | _ | Immune Support | Nutr | itionals | Prob | piotics |
|------------|-----------------------------|-------|--|------|---------------------------------|------|--------------------------------------|
| □ Bloo | d Stop Powder | Proc | lucts | | Battle Drench | | ACHIEVE® PRO Feed/ |
| □ Need | dle, Buhner | | Calf Pro | | BO-SE® (Rx) | _ | Paste Supplement |
| □ Need | dles | | Calf's Choice Total® Gold | | Bovikalc® | | Advita" Paste |
| | Chains/Straps | П | Calf's Choice | | Bovine IgG Colostrum | | Bene-Bac [™] Mammal Gel |
| □ OB F | Handles | Ш | Total® HiCal | | 200 [™] | | Calf Renova |
| □ OB L | ube | | Calf Solutions® | | CalCaps [™] | | First Arrival® Paste/ Calf Powder |
| □ OBS | Saw Wire | | Ultra Start® 150 | | Calcium Gel | | Probios® Bovine One |
| □ Sutu | re, Braunamid® | | Calf Solutions® Ultra | | Calcium Gel Plus Vitamins | | Oral Gel/Plus Natural E |
| □ Sutu | re, Catgut | | Start® 150 Plus | П | Cal-Evate | | Probios® Dispersible |
| □ Syrin | nges | | CL Cow Replacer | | Chute-Side | | Powder/Feed Granules |
| | e, Buhner | | Colostrum 200 [™] Bovine IgG | | CMPK Bolus | | Probios® MAX |
| · · | nal Tape | | Colostrx® CR | П | CMPK Gel | | Probios® Oral Boluses |
| □ Tape | e, Umbilical Tape | | Colostrx® CS | | Copasure® | | RumaStart |
| Disinfecto | ants/Scrubs | | Immu-Start 50® | П | High Potency | | Rumen Yeast Caps |
| | ndine® | П | Lifeline® Boost [™] | | Calcium Gel® | | T.D.N. Mini Rockets [™] |
| □ Chlo | rhexadine | | Lifeline® Nourish™ | | Magna" Gel | Prot | ective Wear |
| □ Nolv | asan® | | Lifeline® Protect™ | | Multimin® 90 (Rx) | | Exam Gloves |
| | | | Lifeline® Rescue [™] | | MU-SE® (Rx) | | Nitrile Gloves |
| | s & Analogs | | Nursemate® 50 | | ProFusion [™] | | Shoe & Boot Covers |
| | umate® (Rx) | | Nursemate® 100 | | SmartCare® NM Powder | | Sleeves |
| | lyse High-Con ction (Rx) | | Nursemate® Plus 150 | | Vital E®-500 | | |
| • | lyse® Solution (Rx) | | PureStart * Colostrum | | Vital E®-Newborn | Misc | cellaneous |
| | tocin (Rx) | | (OMRI) | | Vitamin A&D Injection | | Balling Guns |
| | Plan® (Rx) | | VetOne® Bovine IgG Replacer 115™ | | Vitamin B Complex | | lgG Check Calf Test Kit |
| Identifica | tion | | VetOne® Bovine IgG | П | Vitamin B Complex | | Lidocaine (Rx) |
| | al/Electronic Ear | | Supplement 57.5 [™] | | Injection | | Uterine Bolus |
| | s/Taggers | | Ultra Start® Multi | | Vitamin B Complex Plus | | Scarlet Oil |
| □ Tatto | oo Equipment/Ink | 1 | Colostrum Supplement | | Vitamin B Complex, Fortified | | |
| | | lodir | | | Vitamin B12 | | |
| | | | lodine 7% | | Injection (Rx) | | |
| | | | lodine Ointment | | Vitamin C Injectable | | |
| | | | Super 7 Ultra Navel Care | | Solution (Rx) | | |
| | | | | | Vitamin E-AD 300 | | |
| | | | | | | | |
| | | | | | | | |





EFFECTIVE TREATMENT. NO B.S.

PAY FOR WHAT YOU NEED. NOT FOR WHAT YOU DON'T.

Keep your cash and get the same results you expect. Macrosyn is a bold, straight-shooting antibiotic that does what it's supposed to do — tackle BRD, foot rot and pink eye. End of Story.





Cattle implant chart

| Mfr | Brand | Estradiol (mg) | Estradiol benzoate (mg)† | Proges- terone (mg) | Testosterone propionate (mg) | Trenbolone acetate (mg) | Zeranol (mg) | Indications* | Item# |
|--------|---------------------------------------|-------------------|--------------------------------|---------------------------|------------------------------------|-------------------------------|-----------------|---|--------|
| | Component® E-C with Tylan®** | | 10 | 100 | | | | Suckling beef calves up to 400 lbs; do not use in bull calves intended for reproduction or in calves <45 days old | 123017 |
| | Component® TE-200 with Tylan®** | 20 | | | | 200 | | Steers and heifers fed in confinement for slaughter | 123012 |
| 000 | Component® TE-G with Tylan®** | 8 | | | | 40 | | Pasture cattle (slaughter, stocker, feeder steers and heifers) | 123010 |
| Elanco | Component® TE- IH with Tylan®** | 8 | | | | 80 | | Heifers fed in confinement for slaughter | 123013 |
| | Component® TE- IS with Tylan®** | 16 | | | | 80 | | Steers fed in confinement for slaughter | 123011 |
| | Compudose®*** | 25.7 | | | | | | Suckling and pastured growing steers, confined steers and | 008952 |
| | Encore®*** | 43.9 | | | | | | heifers | 015165 |

Micellized, Water-Dispersible, Liquid Vitamin E

Recommended for use in calves fed milk replacer.

EMCELLE® TOCOPHEROL For Beef. For Dairy.

EMCELLE® TOCOPHEROL is a natural-source and biologically active form of Vitamin E.

The micellization process enhances vitamin E absorption. This process allows the fat-soluble vitamin E to be utilized more readily than either powders or oily forms of vitamin E.



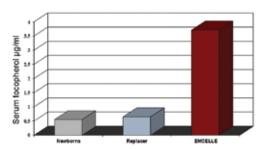
This form of vitamin E is the same form as in grass and cows' colostrum.

This form of vitamin E, although less stable than ester-forms of tocopherol, does not have to be hydrolyzed in the calf's intestinal tract prior to absorption.

This is of greatest importance to young calves that may have a deficiency of esterase enzymes necessary to cleave the ester from the tocopheryl moeity prior to absorbtion. Calves do not efficiently utilize vitamin E acetate that is supplemented in milk replacers (See Figure).



Vitamin E Status of Dairy Calves Receiving **EMCELLE TOCOPHEROL** Compared to Conventional Program



Each value represents the mean of 12 calves. EMCELLE was fed at the rate of 100 I.U. (0.2 ml) per day for four weeks.

FEEDING DIRECTIONS

Feed at the daily rate of 0.2 to 0.6 mL per 100 lb. of body weight to provide 1 to 3 I.U. vitamin E per pound of body weight. The selected dosage should depend upon previous as well as existing nutritional and management practices that affect animals' vitamin E needs.

EMCELLE TOCOPHEROL may be mixed into liquid diets, top-dressed onto dry feeds at time of feeding, or proportioned into drinking water. The product is not intended to be mixed into complete feeds and stored for extended periods of time due to the unstable form of vitamin E in the product.



Cattle implant chart

| Mfr | Brand | Estradiol (mg) | Estradiol benzoate (mg)† | Proges- terone (mg) | Testosterone propionate (mg) | Trenbolone acetate (mg) | Zeranol (mg) | Indications* | Item# |
|--------|-------------------------|-------------------|--------------------------------|---------------------------|------------------------------------|-------------------------------|-----------------|--|------------------|
| | Finaplix®-H | | | | | 200 | | Heifers fed in confinement for slaughter | 084600 |
| | Ralgro® | | | | | | 36 | Suckling beef calves, weaned and growing beef cattle, feedlot steers and heifers; replace-ments 1 month to weaning; not approved for dairy cattle or bulls intended for reproduction | 065916 093631 |
| | Revalor® 200 | 20 | | | | 200 | | Steers and heifers fed in confinement for slaughter. | 019378 |
| Merck | Revalor®-G | 8 | | | | 40 | | Pasture cattle (slaughter, stocker, feeder steers and heifers) | 019820 |
| | Revalor®-H | 14 | | | | 140 | | Heifers fed in confinement | 013613 |
| | Revalor®-IH | 8 | | | | 80 | | for slaughter | 019777 |
| | Revalor®-IS | 16 | | | | 80 | | Steers fed in confinement | 019776 |
| | Revalor®-S | 24 | | | | 120 | | for slaughter | 013611 |
| | Revalor®-XH | 20 | | | | 200 | | Heifers fed in confinement for slaughter | 065642 |
| | Revalor®-XS | 40 | | | | 200 | | Steers fed in confinement for slaughter | 034600 |
| | Synovex® C | | 10 | 100 | | | | Suckling beef calves, 45 days or older, up to 400 lbs | 019348 |
| | Synovex® Choice | | 14 | | | 100 | | Feedlot steers and heifers fed in confinement for slaughter | 021552 |
| | Synovex® H | | 20 | | 200 | | | Stocker and feedlot heifers weighing 400 lbs or more | 006724 |
| etis | Synovex® One Feedlot | | 28 | | | 200 | | Feedlot steers and heifers fed in confinement for slaughter | 062442 |
| Zoetis | Synovex® One Grower | | 21 | | | 150 | | Pasture steers and heifers (slaughter, stocker, feeder) | 118804 |
| | Synovex® Plus™ | | 28 | | | 200 | | Steers and heifers fed in confinement for slaughter | 012600 |
| | Synovex® S | | 20 | 200 | | | | Stocker and feedlot steers weighing 400 lbs or more | 006725 |
| | Synovex® Primer | | 7 | | | 50 | | Growing beef steers and heifers in the dry lot | 124423 |

^{*}Do not use these products in veal calves. Refer to label for complete directions for use, precautions, and warnings.

**Available with 29 mg tylosin tartrate added as a local antibacterial (Component with Tylan products).

***Available with 0.5 mg oxytetracycline antibacterial coating (Compudose and Encore).

†Estradiol Benzoate converts to an equivalent dose of Estradiol using the conversion rate of E2 = 0.724 x EB.

Mastitis product chart

| Mfr | Product | Active ingredient | Dry vs lactating | Milk residue | Meat residue | Size/unit | Item # |
|-------------------------------|--|---|------------------|-----------------|-----------------|-------------|--------|
| | Dry-Clox® (Rx) | Cloxacillin Benzathine | Dry | n/a | 30 Days | 12 x 10 mL | 007042 |
| | Dry-Clox* (RX) | Cioxaciiiii Berizatriirie | | 11/ U | 30 Days | 144 x 10 mL | 060509 |
| Boehringer Ingelheim | Lockout™ Intramammary Teat Sealant Device | Non-Antibiotic | Dry | 0 Days | 0 Days | 144 x 4 gm | 065821 |
| · Inge | PolyMast™ (Rx) | Hetacillin Potassium | Lactating | 3 Days | 10 Days | 12 x 10 mL | 062934 |
| Jger | - cryr rade (tary | | | | | 144 x 10 mL | 062935 |
| ehrir | ToDAY® (Rx) | Cephapirin Sodium | Lactating | 4 Days | 4 Days | 12 x 10 mL | 120222 |
| Bo | IODAT" (RX) | Cepnapinii sodium | Lactating | 4 Days | 4 Days | 144 x 10 mL | 120220 |
| | ToMORROW® (Rx) | Carbarisia Danzathia | Dw | 7 Den 19 | /2 Den/a | 12 x 10 mL | 120244 |
| | IOMORROW® (RX) | Cephapirin Benzathine | Dry | 3 Days | 42 Days | 144 x 10 mL | 120221 |
| - \beta | Amoxi-Mast® (Rx) | Amoxicillin | Lactating | 2.5 Days | 12 Days | 12 x 10 mL | 020526 |
| Merck | Orbenin-DC® (Rx) | Cloxacillin Benzathine | Dry | n/a | 28 Days | 144 x 10 mL | 116942 |
| VetOne | BoviBlock™ Intramammary Teat Sealant Device | Non-Antibiotic | Dry | 0 Days | 0 Days | 144 x 4 gm | 510282 |
| cal /et) | | | | | | 12 x 10 mL | 007057 |
| WG Critical Care (US Vet) | Quartermaster® Suspension (Rx) | Penicillin- Dihy- drostreptomycin | Dry | 4 Days | 60 Days | 144 x 10 mL | 020908 |
| | Albadry Plus® Suspension (Rx) | Penicillin G Procaine, Novobiocin Sodium | Dry | 3 Days | 30 Days | 144 x 10 mL | 120288 |
| tis | Orbeseal® Intramammary Teat Sealant Device | Non-Antibiotic | Dry | 0 Days | 0 Days | 144 x 4 gm | 026622 |
| Zoetis | Speetram get® DC (Dv) | Cofficient Hydrophlesists | Dn | 0 Day 10 | 14 Day 10 | 12 x 10 mL | 026964 |
| | Spectramast® DC (Rx) | Ceftiofur Hydrochloride | Dry | 0 Days | 16 Days | 144 x 10 mL | 030211 |
| | Spectram get® LC (D.) | Cofficient Livering ablasists | Lastatics | 7 Dava | 2 Deve | 12 x 10 mL | 026551 |
| | Spectramast® LC (Rx) | Ceftiofur Hydrochloride | Lactating | 3 Days | 2 Days | 144 x 10 mL | 030210 |

Vaccines: Pinkeye

| Mfr | Product | Meat | Admin | Sizes | Item# |
|-------------------------------------|--------------------------------|--------------|--------|---------|--------|
| ر آھ ک | Maxi/Guard® Pinkeye Bacterin | | | 20 mL | 013838 |
| Addison Biological Laboratory | Maxi, Oddia i lineye bacteriii | _ 21d | | 100 mL | 011330 |
| Add Biolo abo | Moraxella Boyoculi Bacterin* | | | 20 mL | 063912 |
| | Trotaxella Bovocali Bactelli | | - SQ | 100 mL | 063913 |
| Boehringer Ingelheim | Alpha-7/MB-1® | 60d | | 20 mL | 026367 |
| Jring Jahei | Alpha 77110 1 | | _ | 100 mL | 026368 |
| 30e} Inge | Ocu-guard® MB-1 | 21d | | 20 mL | 011925 |
| | | | | 100 mL | 013752 |
| Elanco | Pinkeye Shield™ XT4 | 60d | IM | 20 mL | 011805 |
| E | Tillicye Sheld A14 | 000 | 11.1 | 100 mL | 011806 |
| Huvepharma | I-Site® XP | | | 20 mL | 034653 |
| Huy | | 21d | SQ | 100 mL | 034654 |
| | 20/20 Vision® 7 with Spur® | | | 20 mL | 017881 |
| Merck | 20/20 Vision / Withopui | | | 100 mL | 017882 |
| Σ | Diliguand® Dialogo 1 Triuglant | 40al | MI O2 | 20 mL | 000414 |
| | Piliguard® Pinkeye-1 Trivalent | 60d | SQ, IM | 100 mL | 000643 |
| Zoetis | SolidBac® Pinkeye IR/PR | 21d | SQ | 50 Dose | 026630 |

^{*}Conditionally licensed

| Vaccine type (Vac type) |
|---------------------------|
| K = killed virus |
| MLV = modified live virus |

| K = killed | type (Vac type) d virus odified live virus | | | | | | BRSV (Bovine Respiratory Syncytial Virus) | BVD Type I (Bovine Virus Diarrhea) | BVD Type II (Bovine Virus Diarrhea) | Campylobacter Fetus | Histophilus Somni (Haemophilus Somnus) | IBR (Bovine Rhinotracheitis) | Leptospira Canicola, Grippotyphosa, Iterol | Leptospira Hardjo | Leptospira Hardjo-Bovis | Leptospira Pomona | Mannheimia (Pasteurella) Haemolytica | Mycoplasma Bovis | Pastuerella Multocida | PI3 (Bovine Parainfluenza) | Salmonella Typhimurium | Tritrichomonas Foetus |
|------------------------------|--|-------------|------|----------|---------------|------------------|---|------------------------------------|-------------------------------------|---------------------|--|------------------------------|--|-------------------|-------------------------|-------------------|--------------------------------------|------------------|-----------------------|----------------------------|------------------------|-----------------------|
| Mfr | Product | Vac type | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | | | | | | | |
| American Animal Health | Myco-B One Dose™ | | 60d | SQ | 20 | 064956 | _ | | | | | | | | | | | • | | | | |
| AP | | | | | 100 | 064957 | | | | | | | | | | | | | | | | |
| | Bar Somnus 2P™ | | 21d | IM | 20 | 001892 001166 | | | | | • | | | | | | • | | • | | | |
| | Citadel® L5 | | 21d | SQ/IM | 100 | 039476 | | | | | | | • | ٠ | ٠ | • | | | | | | |
| | Citadel® VL5 | | 21d | SQ | 20 | 030151 | | | | | | | | | | | | | | | | |
| | | | 04.1 | | 100 | 030152 | | | | | | | | | | | | | | | | |
| | Express® 3 | MLV | 21d | SQ | 100 | 024124 | | • | • | | | ٠ | | | | | | | | | | |
| Ë | Express® 5 | MLV | 21d | SQ | 20 | 019104 | . • | • | • | | | • | | | | | | | | • | | |
| elhe | | | | | 100 | 019105 | | | | | | | | | | | | | | | | |
| er Ing | Express® 5-HS | MLV | 21d | SQ | 100 | 019583 019584 | • | ٠ | • | | ٠ | ٠ | | | | | | | | • | | |
| Boehringer Ingelheim | Express® FP 3-VL5 | MLV | 21d | SQ/IM | 20 | 030149 | - | • | • | • | | • | • | • | | • | | | | | | |
| Вое | | MIN | 21.4 | CO /IN4 | 20 | 038036 | | | | | | | | | | | | | | | | |
| | Express® FP 5-VL5 | MLV | 21d | SQ/IM | 100 | 038037 | • | • | • | • | | ٠ | • | | ٠ | • | | | | • | | |
| | Express® FP 10 | MLV | 21d | SQ/IM | 20 | 034418 | | | | | | | | | | • | | | | | | |
| | LAPIG33 11 10 | 1.1FA | 210 | JQ/ 11/1 | 100 | 033419 | _ | | | | | | | | | | | | | | | _ |
| | Presponse® HM | | 21d | IM | 20 | 012783 | | | | | | | | | | | | | | | | |
| | | | | | 100 | 012784 | | | | | | | | | | | | | | | | |
| | Presponse® SQ | | 21d | SQ | 20 | 011654 | - | | | | | | | | | | | | | | | |
| | | | | | 100 | 011655 | | | | | | | | | | | | | | | | |

Leptospira Canicola, Grippotyphosa, Iterohaemorrhagiae

| Vacc | ines: Reproductive an | d respi | ratory | diseas | es | | | | | | | | | | | | | | | | | _ |
|----------|--|-------------|--------|--------|---------------|--------|---|------------------------------------|-------------------------------------|---------------------|--|------------------------------|--|-------------------|-------------------------|-------------------|--------------------------------------|------------------|-----------------------|----------------------------|------------------------|------------------------|
| K = kill | e type (Vac type) ed virus modified live virus | | | | | | BRSV (Bovine Respiratory Syncytial Virus) | BVD Type I (Bovine Virus Diarrhea) | BVD Type II (Bovine Virus Diarrhea) | Campylobacter Fetus | Histophilus Somni (Haemophilus Somnus) | IBR (Bovine Rhinotracheitis) | Leptospira Canicola, Grippotyphosa, Iterohaemorrhagiae | Leptospira Hardjo | Leptospira Hardjo-Bovis | Leptospira Pomona | Mannheimia (Pasteurella) Haemolytica | Mycoplasma Bovis | Pastuerella Multocida | PI3 (Bovine Parainfluenza) | Salmonella Typhimurium | Tritrichomonas Foetius |
| Mfr | Product | Vac type | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | | | | | | | |
| | Pyramid® 3 | MLV | 21d | SQ/IM | 100 | 039109 | | • | • | | | • | | | | | | | | | | |
| | Pyramid® 3 LPH | MLV | 21d | SQ/IM | 100 | 030030 | | • | • | | | • | | • | | • | | | | | | |
| | Pyramid® 3 + Presponse® SQ | MLV | 21d | SQ | 100 | 046039 | | • | • | | | ٠ | | | | | • | | | | | |
| | Pyramid® 4 | MLV | 21d | SQ/IM | 100 | 011317 | • | • | | | | • | | | | | | | | • | | |
| | Dyramid® F | MLV | 214 | SQ/IM | 20 | 022731 | | | | | | | | | | | | | | | | |
| _ | Pyramid® 5 | IYILV | 21d | 20/ IM | 400 | 000==0 | • | • | • | | | • | | | | | | | | • | | |

| Mfr | Product | Vac type | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | | | |
|----------------------|-------------------------------|-------------|------|----------|---------------|--------|----|------|---|----|---|---|---|---|---|--|---|--|
| | Pyramid® 3 | MLV | 21d | SQ/IM | 100 | 039109 | | • | • | • | | | | | | | | |
| | Pyramid® 3 LPH | MLV | 21d | SQ/IM | 100 | 030030 | | • | • | • | | • | | • | | | | |
| | Pyramid® 3 + Presponse® SQ | MLV | 21d | SQ | 100 | 046039 | | • | • | • | | | | | • | | | |
| | Pyramid® 4 | MLV | 21d | SQ/IM | 100 | 011317 | • | • | | • | | | | | | | • | |
| | D. worms i al® F | MLV | 21d | SQ/IM | 20 | 022731 | | | | | | | | | | | | |
| .⊑ | Pyramid® 5 | I*ILV | 210 | 20/ IIVI | 100 | 022732 | | • | • | | | | | | | | | |
| <u> </u> | Pyramid® 5 + Presponse® | MLV | 21d | SQ | 20 | 030212 | | | _ | Ι. | | | | | | | | |
| <u>n</u> | SQ | IVILV | 210 | 50 | 100 | 030213 | • | • | • | | | | | | • | | | |
| Boehringer Ingelheim | Pyramid® 10 | MLV | 21d | SQ/IM | 20 | 028573 | | | | | | | | | | | | |
| Ę. | Pyramia* 10 | I*ILV | 210 | 30/114 | 100 | 028574 | Ľ | | | | | ľ | | | | | | |
| 30e | Pyramid® IBR | MLV | 21d | SQ/IM | 100 | 017629 | | | | • | | | | | | | | |
| ш | Trion ala® / LDLL I/ | V | 21d | SQ | 50 | 003947 | | | | | | | | | | | | |
| | Triangle® 4 + PH-K | K | 210 | 5Q | 250 | 003943 | • | • | | • | | | | | • | | • | |
| | Triangle® F | V | 21 - | 00 /184 | 20 | 017578 | | | | | | | | | | | | |
| | Triangle® 5 | K | 21d | SQ/IM | 100 | 017579 | • | • | • | • | | | | | | | • | |
| | Triangle® 10 LID | K | 21.4 | CO /IM | 50 | 039186 | | | | | | | | | | | | |
| | Triangle® 10 HB | K | 21d | SQ/IM | 250 | 039188 | • | • | • | • | • | • | • | • | | | • | |

Vaccine type (Vac type) K = killed virus MLV = modified live virus

| | | | | | | | Ш | m | m | O | 工 | ш | Ľ | Ľ | تّ | تّ | Σ | Σ | Д | Ф | Q F | = |
|-------------------|------------------------------------|-------------|------|---------|---------------|--------|----|------|---|---|---|---|---|---|----|----|---|---|---|---|-----|---|
| Mfr | Product | Vac type | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | | | | | | | |
| | | | 21.1 | 00 /114 | 20 | 024443 | | | | | | | | | | | | | | | | |
| 9 5 | Lepto-5* | | 21d | SQ/IM | 100 | 024444 | | | | | | | • | • | | • | | | | | | |
| Colorado Serum | Mannheimia Haemolytica- | | | | 20 | 023563 | | | | | | | | | | | | | | | | |
| Ŏ , | Pasteurella Multocida Bacterin* | | 21d | SQ | 100 | 023562 | | | | | | | | | | | • | | • | | | |
| | Lepto Shield® 5* | | 21d | IM | 20 | 027879 | _ | | | | | | | | | | | | | | | |
| | Lepto Silieid 3 | | 210 | 11.1 | 100 | 001336 | | | | | | | | | | _ | | | | | | _ |
| | Master Guard® 10 HB | MLV/K | 21d | SQ/IM | 30 | 019567 | | | | | | | | | | | | | | | | |
| | | I'ILV/IX | 210 | 30/111 | 75 | 019568 | · | | | | | | _ | | _ | • | | | | | | |
| | Nuplura™ PH | | 60d | SQ | 20 | 040078 | _ | | | | | | | | | | | | | | | |
| | | | | | 100 | 040079 | | | | | | | | | | | | | | | | |
| | Nuplura™ PH+™ 3 | MLV | 60d | SQ | 20 | 113160 | | | | | | | | | | | | | | | | |
| | | | 000 | - G | 100 | 113158 | | | | | | | | | | | | | | | | |
| | Nuplura™ PH+™ BVD | MLV | 60d | SQ | 20 | 113157 | | | | | | | | | | | | | | | | |
| | | | | | 100 | 113159 | | | | | | | | | | | | | | | | _ |
| Elanco | ReproSTAR® L5 HB | | 60d | SQ | 20 | 029979 | | | | | | | | | | | | | | | | |
| 음 | | | | | 100 | 029980 | | | | | | | | | | | | | | | | |
| | ReproSTAR® VL5 HB | | 60d | IM | 20 | 030008 | | | | | | | | | | | | | | | | |
| | | | | | 100 | 030009 | | | | | | | | | | | | | | | | _ |
| | Somnu Shield® | | 21d | SQ/IM | 100 | 009082 | | | | | • | | | | | | | | | | | |
| | Titanium® 3 | MLV | 21d | SQ/IM | 20 | 019555 | | | | | | | | | | | | | | | | |
| | | | | · | 100 | 019556 | | | | | | | | | | | | | | | | _ |
| | Titanium® 3 LP | MLV | 21d | SQ/IM | 100 | 031735 | | • | • | | | • | | | | • | | | | | | |
| | Titanium® 5 | MLV | 21d | SQ | 20 | 019549 | | | | | | | | | | | | | | | | |
| | | | | | 100 | 019550 | | | | | | | | | | | | | | | | _ |
| | Titanium® 5 L5 HB* | MLV | 21d | SQ | 20 | 019551 | | | • | | | • | | | | | | | | | | |
| | | | | | 100 | 019552 | | | | | | | | | | | | | | | | |

eptospira Canicola, Grippotyphosa, Iterohaemorrhagiae

Mannheimia (Pasteurella) Haemolytica

eptospira Hardjo-Bovis

eptospira Hardjo

eptospira Pomona

13 (Bovine Parainfluenza)

Pastuerella Multocida

Aycoplasma Bovis

Salmonella Typhimurium

ritrichomonas Foetus

Histophilus Somni (Haemophilus Somnus)

BR (Bovine Rhinotracheitis)

3RSV (Bovine Respiratory Syncytial Virus)

3VD Type I (Bovine Virus Diarrhea)
3VD Type II (Bovine Virus Diarrhea)

Sampylobacter Fetus

Vira Shield® 6+VL5 HB

Vira Shield® 6+VL5 Somnus K

Somnus

| K = kille | e type (Vac type) ed virus nodified live virus | | | | | | BRSV (Bovine Respiratory Syncytial Virus) | BVD Type I (Bovine Virus Diarrhea) | BVD Type II (Bovine Virus Diarrhea) | Campylobacter Fetus | Histophilus Somni (Haemophilus Somnus) | IBR (Bovine Rhinotracheitis) | Leptospira Canicola, Grippotyphosa, Iteroh | Leptospira Hardjo | Leptospira Hardjo-Bovis | Leptospira Pomona | Mannheimia (Pasteurella) Haemolytica | Mycoplasma Bovis | Pastuerella Multocida | PI3 (Bovine Parainfluenza) | Salmonella Typhimurium | Tritrichomonas Foetus |
|-----------|--|-------------|------|-------|---------------|------------------|---|------------------------------------|-------------------------------------|---------------------|--|------------------------------|--|-------------------|-------------------------|-------------------|--------------------------------------|------------------|-----------------------|----------------------------|------------------------|-----------------------|
| Mfr | Product | Vac type | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | | | | | | | |
| | Titanium® IBR | MLV | 21d | SQ/IM | 100 | 019560 | | | | | | • | | | | | | | | | | |
| | Titanium® IBR-LP | MLV | 21d | SQ/IM | 100 | 019558 | | | | | | • | | | | • | | | | | | |
| | Vib Shield® Plus L5 | | 60d | IM | 20 | 011030 | | | | | | | • | | | | | | | | | |
| | | | 000 | | 100 | 011031 | | | | | | | | | | | | | | | | |
| | Vira Shield® 4+VL5 | K | 60d | SQ | 250 | 013822 | | • | ٠ | ٠ | | • | • | ٠ | | ٠ | | | | | | |
| | Vira Shield® 6 | K | 60d | SQ | 50 | 023895 | | | | | | | | | | | | | | | | |
| | | | | | 250 | 023896 | | | | | | | | | | | | | | | | _ |
| | Vira Shield® 6+Somnus | K | 60d | IM | 50 | 023894 | | • | • | | • | | | | | | | | | • | | |
| | | | | | 250 | 023893 | | | | | | | | | | | | | | | | |
| 0 | Vira Shield® 6+L5 | K | 60d | SQ | 50 250 | 026311 | • | • | • | | | • | • | • | | • | | | | • | | |
| Elanco | | | | | 50 | 020312 | | | | | | | | | | | | | | | | |
| ы | Vira Shield® 6+L5 HB | K | 60d | SQ | 250 | 027158 | • | • | • | | | • | • | | • | • | | | | • | | |
| | Vira Shield® 6+L5 HB Somnus | K | 60d | IM | 250 | 027161 | • | • | • | | • | • | • | | • | • | | | | • | | |
| | Vira Shield® 6+VL5 | K | 60d | SQ | 50 250 | 026313 026314 | • | • | • | | | • | • | • | | • | | | | • | | |
| | Vira Shield® 6+VL5 HB | K | 60d | SQ | 50 250 | 028719 028720 | | | | | | • | • | | | | | | | • | | |

50

250

50

250

60d

60d

IM

IM

028721

028722

026315

026316

naemorrhagiae

Vaccine type (Vac type) K = killed virus MLV = modified live virus

| | | | | | | | m | М | m | O | エ | ш | ت | ت | ت | ت | 2 | 2 | Δ. | Ф | S F |
|---------|---------------------------------|-------------|------|-------|---------------|--------|----|------|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mfr | Product | Vac type | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | | | | | | |
| | | | | | 40 | 042172 | | | | | | | | | | | | | | | |
| O | ENDOVAC-Beef® with ImmunePlus® | | 21d | IM | 100 | 042180 | | | | | | | | | | | • | | • | | • |
| Endovac | | | | | 200 | 042177 | | | | | | | | | | | | | | | |
| inde | EMBOMA D. I. B. III | | | | 40 | 004024 | | | | | | | | | | | | | | | |
| Ш | ENDOVAC-Dairy® with ImmunePlus® | | 21d | IM | 100 | 004026 | | | | | | | | | | | • | | • | | • |
| | initialier ide | | | | 200 | 027425 | | | | | | | | | | | | | | | |
| | | | | | 25x2 | 099921 | | | | | | | | | | | | | | | |
| | BoviLis® Nasalgen® 3 | MLV | 21d | I.N. | 20 | 099920 | • | | | | | • | | | | | | | | • | |
| | | | | | 100 | 099919 | | | | | | | | | | | | | | | |
| | | | | | 25x2 | 112574 | | | | | | | | | | | | | | | |
| × | BoviLis® Nasalgen® 3 - PMH | MLV | 21d | I.N. | 20 | 112575 | | • | | | | • | | | | | • | | • | • | |
| Merck | | | | | 100 | 112576 | | | | | | | | | | | | | | | |
| 2 | BoviLis® Vista® BVD CFP | MLV | 21d | SQ | 20 | 101127 | | | | | | | | | | | | | | | |
| | BOVILIS* VISIQ* BVD CFP | I*ILV | 210 | 30 | 100 | 101130 | | • | • | | | | | | | | | | | | |
| | L5 SQ | | 21d | SQ | 100 | 026721 | | | | | | | • | • | • | • | | | | | |
| | Nasalgen® IP | MLV | 21d | I.N. | 20 | 000786 | _ | | | | | | | | | | | | | | |
| | Nusuigerrip | IŤILV | 210 | 1.11. | 100 | 000787 | | | | | | , | | | | | | | | | |

eptospira Canicola, Grippotyphosa, Iterohaemorrhagiae

Mannheimia (Pasteurella) Haemolytica

eptospira Hardjo-Bovis

eptospira Hardjo

eptospira Pomona

13 (Bovine Parainfluenza)

astuerella Multocida

Aycoplasma Bovis

Salmonella Typhimurium

ritrichomonas Foetus

Histophilus Somni (Haemophilus Somnus)

BR (Bovine Rhinotracheitis)

3VD Type I (Bovine Virus Diarrhea)
3VD Type II (Bovine Virus Diarrhea)

Sampylobacter Fetus

3RSV (Bovine Respiratory Syncytial Virus)

| vaccines: Reproductive and respiratory diseases | | | | | | | | | | | | | | | | |
|--|---|-----|-------------------------------------|---------------------|--|------------------------------|--|-------------------|-------------------------|-------------------|--------------------------------------|------------------|-----------------------|----------------------------|------------------------|-----------------------|
| Vaccine type (Vac type) K = killed virus MLV = modified live virus | BRSV (Bovine Respiratory Syncytial Virus) | () | BVD Type II (Bovine Virus Diarrhea) | Campylobacter Fetus | Histophilus Somni (Haemophilus Somnus) | IBR (Bovine Rhinotracheitis) | Leptospira Canicola, Grippotyphosa, Iterohaemorrhagiae | Leptospira Hardjo | Leptospira Hardjo-Bovis | Leptospira Pomona | Mannheimia (Pasteurella) Haemolytica | Mycoplasma Bovis | Pastuerella Multocida | PI3 (Bovine Parainfluenza) | Salmonella Typhimurium | Tritrichomonas Foetus |

| | | | | | | | ш | | ш | | | | | | | | | ш | | |
|--------------------|--------------------------|-------------|------|-------|---------------|--------|----|------|---|---|---|---|---|---|---|---|---|---|---|--|
| Mfr | Product | Vac type | Meat | Admin | Sizes (ml) | Item # | Ar | tige | n | | | | | | | | | | | |
| | | | | | 25x2 | 060655 | | | | | | | | | | | | | | |
| | Once® PMH IN | | 21d | I.N. | 20 | 050409 | | | | | | | | | | | • | • | | |
| | | | | | 100 | 050412 | | | | | | | | | | | | | | |
| | Once PMH® SQ | | 21d | SQ | 20 | 026719 | | | | | | | | | | | | | | |
| | Office Figure 3Q | | 210 | 300 | 100 | 026720 | | | | | | | | | | | | | | |
| | Vista® 5 SQ | MLV | 21d | SQ | 20 | 026714 | | | | | | | | | | | | | | |
| Ä | Vista 3 3Q | ITILV | 210 | 30 | 100 | 026715 | | Ů | Ľ | | | Ů | | | | | | | ŭ | |
| Merck | Vista® 5 L5 SQ | MLV | 21d | SQ | 20 | 026717 | | | | | | | | | | | | | | |
| | Vista 5 L5 5Q | ITILV | 210 | 300 | 100 | 026718 | | Ť | Ť | | | Ť | Ť | | - | Ť | | | Ĭ | |
| | Vista® 5 VL5 SQ | MLV | 21d | SQ | 20 | 027421 | | | | | | | | | | | | | | |
| | VISIG 5 VES 5Q | 1.10 | 210 | | 100 | 027422 | | | | | | | | | | | | | | |
| | Vista® Once SQ | MLV | 21d | SQ | 20 | 026764 | | | | | | | | | | | | • | | |
| | Vista Office od | 1124 | 210 | UQ | 100 | 026765 | | | | | | | | | | | | | | |
| | VL5 SQ | | 21d | SQ | 100 | 026722 | | | | ٠ | | | • | • | • | • | | | | |
| | Stimulator 2 + BRSV | MLV | 21d | SQ | 100 | 116098 | • | | | | | • | | | | | | | • | |
| | Myco-Bac® W/Reveal ATS | | 60d | SQ | 100 | 114761 | | | | | | | | | | | | | | |
| | 141yCO-Bac W/ Reveal A13 | | 00a | 300 | 200 | 114803 | | | | | | | | | | | | | | |
| <u>8</u> | Poly-Bac® W/Reveal ATS | | 60d | SQ | 100 | 113684 | | | | | | | | | | | | | | |
| Bimeda Biologicals | Foly-bac W/NevealA13 | | 000 | 300 | 200 | 113685 | | | | | Ť | | | | | | Ť | | | |
| Biolo | Stimulator® 5† | MLV | 21d | SQ | 20 | 111953 | | | | | | | | | | | | | | |
| da - | Stillidiator 51 | 1.10 | 210 | | 100 | 104410 | | | | | | | | | | | | | | |
| ime | Stimulator® 3† | MLV | 21d | SQ | 100 | 104409 | | • | • | | | • | | | | | | | | |
| B | Pro-Bac® 4 Plus IBRK and | K | 60d | SQ | 100 | 113663 | _ | | | | | | | | | | | | | |
| | BVDK | | | | 200 | 113661 | | | | | | | | | | | | | | |
| | Pro-Bac® W/Reveal ATS | | 60d | SQ | 100 | 113686 | | | | | | | | | | | | • | | |
| | Sao II/Rovodi Alo | | 300 | 34 | 200 | 113687 | | | | | | | | | | | | | | |

| Vaccine type (Vac type) |
|---------------------------|
| K = killed virus |
| MLV = modified live virus |

| | | | | | | | Ш | Ш | ш | | = | | | | 2 | 2 | П | Ф | () | _ |
|--------|--------------------------|-------------|------|-------|---------------|--------|----|------|---|--|---|---|---|---|---|---|---|---|----|---|
| Mfr | Product | Vac type | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | | | | | |
| | | | | | 10 | 124916 | | | | | | | | | | | | | | |
| Ö | Bovigen Platinum 5 | MLV | 21d | SQ | 50 | 124917 | • | • | • | | • | | | | | | | • | | |
| Virbac | Bovigen Platinum 5 L5 | MLV | 21d | SQ | 20 | 124918 | | | | | • | • | • | • | | | | • | | |
| | boviger i radiidiii 5 E5 | I-ILV | 210 | 300 | 100 | 124919 | | | | | | | | - | | | | | | |

eptospira Canicola, Grippotyphosa, Iterohaemorrhagiae

Mannheimia (Pasteurella) Haemolytica

eptospira Hardjo-Bovis

eptospira Hardjo

eptospira Pomona

P13 (Bovine Parainfluenza)

Pastuerella Multocida

Mycoplasma Bovis

Salmonella Typhimurium Fritrichomonas Foetus

Histophilus Somni (Haemophilus Somnus)

BR (Bovine Rhinotracheitis)

3RSV (Bovine Respiratory Syncytial Virus)

3VD Type I (Bovine Virus Diarrhea) 3VD Type II (Bovine Virus Diarrhea)

| Vaccine type (Vac type) |
|---------------------------|
| K = killed virus |
| MIV = modified live virus |

| | | Vac | | | Sizes | | | | | | | | | | | | | | |
|------------|---------------------------|-------|------|---------|-------|--------|----|------|---|--|---|---|---|---|---|---|--|---|---|
| Mfr | Product | type | Meat | Admin | (ml) | Item # | An | tige | n | | | | | | | | | | |
| | Bovi-Shield GOLD® 4 | MLV | 21d | SQ/IM | 100 | 022488 | | • | • | | ٠ | | | | | | | • | |
| | | | | | 10 | 022489 | | | | | | | | | | | | | |
| | Bovi-Shield GOLD® 5 | MLV | 21d | SQ/IM | 20 | 022490 | • | • | • | | • | | | | | | | • | |
| | | | | | 100 | 022491 | | | | | | | | | | | | | |
| | Bovi-Shield GOLD® BVD | MLV | 21d | SQ/IM | 20 | 037720 | | | | | | | | | | | | | |
| | BOVI Shield GOLD BVD | 1.1FA | 210 | 30/111 | 100 | 037721 | | | | | | | | | | | | | |
| | Bovi-Shield GOLD FP® 5 | MLV | 21d | SQ/IM | 20 | 027120 | | | | | • | | | | | | | | |
| | BOVI Shield GOLD II S | I-ILV | 210 | 30/11/1 | 100 | 027121 | | Ť | Ť | | • | | | | | | | • | |
| | | | | | 10 | 022492 | | | | | | | | | | | | | |
| | Bovi-Shield GOLD FP® 5 L5 | MLV | 21d | IM | 20 | 022493 | • | • | • | | • | • | • | | • | | | • | |
| | | | | | 100 | 022494 | | | | | | | | | | | | | |
| | Bovi-Shield GOLD FP® 5 | | | | 10 | 036473 | | | | | | | | | | | | | |
| <u>.c.</u> | L5 HB | MLV | 21d | SQ/IM | 20 | 035509 | • | • | • | | • | • | • | • | • | | | • | |
| Zoetis | | | | | 100 | 035510 | | | | | | | | | | | | | |
| 17 | Bovi-Shield GOLD FP® 5 | MLV | 21d | IM | 20 | 022495 | | | | | | | | | | | | | |
| | VL5 | | 210 | | 100 | 022496 | | | | | | | | | | | | | |
| | Bovi-Shield GOLD® IBR- | MLV | 21d | SQ/IM | 20 | 037722 | - | | | | | | | | | | | | |
| | BVD | | | | 100 | 022484 | | | | | | | | | | | | | _ |
| | Bovi-Shield GOLD One | | | | 10 | 048928 | _ | | | | | | | | | | | | |
| | Shot™ | MLV | 21d | SQ | 20 | 048929 | • | • | • | | • | | | | | • | | • | |
| | | | | | 100 | 048930 | | | | | | | | | | | | | |
| | Bovi-Shield® IBR | MLV | 21d | SQ/IM | 100 | 013331 | | | | | ٠ | | | | | | | _ | _ |
| | CattleMaster® 4+VL5 | MLV/K | 21d | IM | 50 | 008852 | | | | | | • | | | | | | | |
| | | , | | | 125 | 008853 | | | | | | | | | | | | | |
| | | | | | 10 | 023938 | | | | | | | | | | | | | |
| | CattleMaster GOLD FP® 5 | MLV/K | 21d | SQ | 20 | 023939 | • | • | • | | • | | | | | | | • | |
| | | | | | 50 | 023940 | | | | | | | | | | | | | |

Leptospira Canicola, Grippotyphosa, Iterohaemorrhagiae

Mannheimia (Pasteurella) Haemolytica

Leptospira Hardjo-Bovis

Leptospira Hardjo

Leptospira Pomona

PI3 (Bovine Parainfluenza)

Pastuerella Multocida

Mycoplasma Bovis

Salmonella Typhimurium

Tritrichomonas Foetus

Histophilus Somni (Haemophilus Somnus)

IBR (Bovine Rhinotracheitis)

BRSV (Bovine Respiratory Syncytial Virus)

BVD Type I (Bovine Virus Diarrhea) BVD Type II (Bovine Virus Diarrhea)

Campylobacter Fetus

Vaccine type (Vac type) K = killed virus MLV = modified live virus

| | | | | | | | m | Ш | Ш | O | 十 | = | Ľ | | ت | ت | 2 | 2 | П | Ф | S | - |
|--------|----------------------------|-------------|------|-----------|---------------|--------|----|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mfr | Product | Vac type | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | | | | | | | |
| | | | | | 25 | 023941 | | | | | | | | | | | | | | | | |
| | CattleMaster GOLD FP® 5 L5 | MLV/K | 21d | SQ | 50 | 023942 | • | • | • | | | • | • | • | | • | | | | • | | |
| | 3 L3 | | | | 125 | 023943 | | | | | | | | | | | | | | | | |
| | | | | | 25 x 2 | 037593 | | | | | | | | | | | | | | | | |
| | INICODOCE™ 7 | NALVA | 21-1 | LNI | 20 | 037594 | | | | | | | | | | | | | | | | |
| | INFORCE™ 3 | MLV | 21d | I.N. | 50 | 037595 | • | | | | | • | | | | | | | | • | | |
| | | | | | 100 | 037596 | | | | | | | | | | | | | | | | |
| | | | 21.1 | 15.4 | 20 | 000699 | | | | | | | | | | | | | | | | |
| | Leptoferm-5® | | 21d | IM | 100 | 000700 | | | | | | | ٠ | • | | • | | | | | | |
| C | | | | | 10 | 019026 | | | | | | | | | | | | | | | | |
| | One Shot® | | 21d | SQ | 20 | 006329 | | | | | | | | | | | | | | | | |
| | | | | | 100 | 004796 | | | | | | | | | | | | | | | | |
| Zoetis | One Shot® BVD | MLV | 21 - | SQ | 20 | 051694 | | | | | | | | | | | | | | | | |
| 206 | Oue 2uor BAD | I*ILV | 21d | <i>SQ</i> | 100 | 051695 | | • | • | | | | | | | | · | | | | | |
| | PregGuard GOLD FP® 10 | MLV | 21d | IM | 20 | 022497 | | | | | | • | | | | | | | | | | |
| | PlegGuala GOLD PP 10 | I*ILV | ZIG | 11*1 | 100 | 022498 | | | | | | | | • | | Ů | | | | | | |
| | Somubac® | | 21d | SQ | 20 | 017962 | | | | | | | | | | | | | | | | |
| | Somubac | | ZIG | 30 | 100 | 017971 | | | | | | | | | | | | | | | | |
| | Spirovac® | | 21d | SQ | 20 | 021784 | | | | | | | | | | | | | | | | |
| | Spilovac | | 210 | 30 | 100 | 021785 | | | | | | | | | Ĭ | | | | | | | |
| | Spirovac® L5 | | 21d | SQ/IM | 20 | 024148 | | | | | | | • | | | | | | | | | |
| | Spilovac LS | | ZIU | 30/111 | 100 | 024149 | | | | | | | | _ | | Ľ | | | | | | |
| | Cpirovao® \/LE | | 21d | CO /IM | 50 | 023944 | | | | | | | • | | | | | | | | | |
| | Spirovac® VL5 | | ZIU | SQ/IM | 250 | 023945 | | | | · | | | • | • | • | · | | | | | | |
| | StayBred™ VL5 | | 21d | IM | 100 | 009982 | | | | • | | | • | • | | • | | | | | | |
| | Vibrin® | | 60d | SQ | 100 | 001486 | | | | • | | | | | | | | | | | | |

^{*}Multi-species; see label. **Contain Mannheimia Haemolytica Type A-1 and Type A-6

eptospira Canicola, Grippotyphosa, Iterohaemorrhagiae

Mannheimia (Pasteurella) Haemolytica

Aycoplasma Bovis

eptospira Hardjo-Bovis

eptospira Pomona

PI3 (Bovine Parainfluenza)

salmonella Typhimurium Tritrichomonas Foetus

Histophilus Somni (Haemophilus Somnus)

Sampylobacter Fetus

BR (Bovine Rhinotracheitis)

3RSV (Bovine Respiratory Syncytial Virus)

3VD Type I (Bovine Virus Diarrhea)

All data was gathered based on labels as listed in the Compendium of Veterinary Products. Always refer to label before using product, particularly to distinguish between levels of protection and control. MWI Animal Health is not responsible for typographical errors, or otherwise.

Vaccines: Clostridial diseases

| Mfr | Product | MS | Meat | Admin | Sizes | Item # | | ntige | en | | | | | | | | | |
|-----|-----------------------------------|----|------|-------|-------|--------|----------------------|--------------------------------|--------------------------|-------------------|--------------------------------|--------------------------------|-------------|----------------------|-----------------------|--------------------|--------------------------------------|-----------------|
| | ultiple species ubel for usage | | | | | | Clostridium Chauvoei | Clostridium Haemophilus Somnus | Clostridium Haemolyticum | Clostridium Novyi | Clostridium Perfringens Type A | Clostridium Perfringens Type C | Perfringens | Clostridium Septicum | Clostridium Sordellii | Clostridium Tetani | Mannheimia (Pasteurella) Haemolytica | Moraxella Bovis |

| Mfr | Product | MS | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | |
|----------------------|---------------------|----|------|-------|---------------|--------|----|------|---|---|---|---|---|---|---|--|
| | Alpha-7™ | | 60d | SQ | 20 | 010284 | | | | | | | | | | |
| | Арпа-7 | | 00G | 30 | 100 | 010285 | | | | | | | | | | |
| | Alpha-7/MB™-1 | | 60d | SQ | 20 | 026367 | | | | | | | | | | |
| | Афпа-7/МВ -1 | | 000 | 300 | 100 | 026368 | | | | Ť | _ | | _ | | | |
| | | | | | 20 | 011483 | _ | | | | | | | | | |
| | Alpha-CD™ | | 60d | SQ | 100 | 011484 | | | | | • | • | | | | |
| | | | | | 500 | 024104 | | | | | | | | | | |
| E | Bar-Vac® 7 | | 21d | SQ | 50 | 013871 | | | | | | | | | | |
| Dei | bai-vac- / | Χ | 210 | 30 | 250 | 013872 | Ů | | | • | • | | • | | | |
| Boehringer Ingelheim | Bar-Vac® 7/Somnus | | 21d | SQ | 50 | 002193 | | | | | | | | | | |
| <u>ē</u> | Bai-vac 7/30ifilius | | 210 | 30 | 250 | 002156 | | | | | Ĭ | Ů | Ĭ | Ů | | |
| ÷ <u>T</u> | Bar-Vac® 8 | | 21d | SQ | 50 | 013899 | | | | | | | | | | |
| oeh | Bai-vac 8 | Χ | 210 | 30 | 250 | 013294 | Ů | | Ů | Ů | ŭ | Ů | ŭ | Ů | | |
| Δ | Bar-Vac® CD | Χ | 21d | SQ | 250 | 007041 | | | | | ٠ | ٠ | | | | |
| | Bar-Vac® CD/T | Χ | 21d | SQ | 50 | 003369 | | | | | | | | | | |
| | Bai-vac CD/ i | Х | 210 | 300 | 250 | 003368 | | | | | _ | | | | _ | |
| | Caliber® 3 | Χ | 21d | SQ | 500 | 021825 | | | | | • | ٠ | | | | |
| | | | | | 20 | 018812 | | | | | | | | | | |
| | Caliber® 7 | Χ | 21d | SQ | 100 | 018813 | • | | | • | • | • | • | • | | |
| | | | | | 500 | 021605 | | | | | | | | | | |
| | Tetguard™ | Χ | 21d | SQ/IM | 10 | 011439 | | | | | | | | | • | |

Vaccines: Clostridial diseases

MS = Multiple species Check label for usage

| Mfr | Product | MS | Meat | Admin | Sizes (ml) | Item # | An | Antigen | | | | | <u> </u> | | | |
|----------------------|-------------------------------|----|------|-------|---------------|--------|----|---------|---|--|--|---|----------|---|---|--|
| | Clostridium Perfringens C & D | | 21d | SQ | 50 | 026682 | | | | | | | | | | |
| | Antitoxin | Χ | | | 250 | 009968 | - | | | | | • | • | | | |
| olorado Serum Ess | Essential 1 | Χ | 21d | SQ/IM | 100 | 002244 | | | • | | | | | | | |
| | Essential 2 | Χ | 21d | SQ | 500 | 033910 | • | | | | | | | • | | |
| | Essential 3 | X | 21d | SQ/IM | 20 | 024445 | | | | | | | | | | |
| | | ^ | | | 100 | 024446 | | | | | | | | | | |
| | Essential 3+T | | 21d | SQ/IM | 20 | 018697 | | | | | | • | • | | • | |
| | | Χ | | | 100 | 021722 | | | | | | | | | | |
| | Tetanus Toxoid Concentrated | X | 21 - | IN 4 | 10 x 1 | 031843 | | | | | | | | | | |
| | letanus Ioxola Concentratea | | 21d | IM | 10 | 028476 | - | | | | | | | | | |

Mannheimia (Pasteurella) Haemolytica

Moraxella Bovis

Clostridium Haemophilus Somnus

Clostridium Chauvoei

Clostridium Haemolyticum

Clostridium Novyi

Clostridium Perfringens Type A Clostridium Perfringens Type C Clostridium Perfringens Type D

Clostridium Septicum Clostridium Sordellii Clostridium Tetani

60

Vaccines: Clostridial diseases

MS = Multiple species Check label for usage

| Mfr | Product | MS | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | |
|-------|-----------------------------|-------|------|--------|---------------|--------|----|------|---|---|---|---|---|---|---|---|
| | 20/20 Visio x® 7 with Cour® | | 214 | 02 | 20 | 017881 | | | | | | _ | | | | |
| | 20/20 Vision® 7 with Spur® | | 21d | SQ | 100 | 017882 | • | | | • | • | • | ٠ | • | | • |
| | | | | | 20 | 030128 | | | | | | | | | | |
| | Cavalry® 9 | | 21d | SQ | 100 | 030131 | • | | • | • | • | • | • | • | • | |
| | | | | | 250 | 030132 | | | | | | | | | | |
| | Covexin® 8 | Χ | 21d | SQ/IM | 50 | 004895 | | | | | | | | | | |
| | Covexiii 8 | ^ | 210 | 30/114 | 250 | 004795 | | | | | | | | | | |
| Merck | Guardian®* | | 60d | s0 | 20 | 024061 | | | | | | | | | | |
| | | | 000 | SQ 100 | 100 | 024062 | | | | | _ | | | | | |
| | Vision® 7 with Spur® | Χ | 21d | SQ | 20 | 001815 | _ | | | | | | | | | |
| | | | | | 100 | 001816 | • | | | • | • | • | • | • | | |
| | | | | | 500 | 011113 | | | | | | | | | | |
| | | | 21d | SQ | 20 | 011809 | | | | | | | | | | |
| | Vision® 7 Somnus with Spur® | | | | 100 | 011810 | • | • | | • | ٠ | • | • | • | | |
| | | | | | 500 | 011811 | | | | | | | | | | |
| | Vision® 8 with Spur® | X 21d | 214 | SQ | 20 | 001817 | | | | | | | | | | |
| | vision o with opai | | 210 | | 100 | 001819 | | | | | | | | | | |
| | Vision® 8 Somnus with Spur® | | 21d | SQ | 20 | 018255 | | | | | | | | | | |
| | vision o sommas with opai | | 210 | 3Q | 100 | 018256 | | | | | | | | | | |
| | Vision® CD with Spur® | Χ | 21d | SQ | 500 | 018630 | | | | | ٠ | ٠ | | | | |
| | Vision® CD-T with Spur® | Χ | 21d | SQ | 100 | 010792 | | | | | ٠ | • | | | • | |

Mannheimia (Pasteurella) Haemolytica

Moraxella Bovis

Clostridium Haemophilus Somnus

Clostridium Chauvoei

Clostridium Haemolyticum

Clostridium Novyi

Clostridium Perfringens Type A Clostridium Perfringens Type C Clostridium Perfringens Type D

Clostridium Septicum Clostridium Sordellii Clostridium Tetani

Vaccines: Clostridial diseases

MS = Multiple species Check label for usage

| | | | | | | | O | O | O | O | O | O | O | 0 | O | O | ΣΣ |
|---------|----------------------|----|------|-------|---------------|--------|----|------|---|---|---|---|----------|---|---|---|----|
| Mfr | Product | MS | Meat | Admin | Sizes (ml) | Item # | An | tige | n | | | | | | | | |
| | One Shot Ultra™ 7 | | 21.4 | 00 | 20 | 017957 | | | | | | | | | | | |
| | One shot oitrd 7 | | 21d | SQ - | 100 | 017961 | • | | | · | | • | • | • | • | | |
| Ultrabo | One Shot Ultra™ 8 | | 21d | SQ | 20 | 019645 | | | | | | | | | | | |
| | One shot oitid 6 | | 210 | 30 | 100 | 019644 | Ľ | | ľ | Ů | | | | | | | |
| | | | | | 50 | 018105 | | | | | | | | | | | |
| | Ultrabac® 7 | X | 21d | SQ | 250 | 017978 | • | | | • | | • | • | • | • | | |
| | | | | | 1000 | 013262 | | | | | | | | | | | |
| | Ultrabac® 7/Somubac® | | | | 50 | 017981 | | | | | | | | | | | |
| | | | 21d | SQ | 250 | 017982 | • | • | | • | | • | • | • | • | | |
| | | | | | 1000 | 013582 | | | | | | | | | | | |
| | Ultrabac® 8 | | 21d | SQ | 50 | 019028 | | | | | | | | | | | |
| | | Χ | | | 250 | 019171 | • | | • | • | | • | • | • | • | | |
| | | | | | 1000 | 019029 | | | | | | | | | | | |
| | Ultrabac® CD | X | 21d | SQ | 20 | 018104 | | | | | | | | | | | |
| | | ^ | | | 100 | 017977 | | | | | | | <u> </u> | | | | |
| | UltraChoice™ 7 | | 21d | SQ | 20 | 017972 | | | | | | | | | | | |
| | | X | | | 100 | 018095 | • | | | • | | • | • | • | • | | |
| | | | | | 500 | 019196 | | | | | | | | | | | |
| | | | | | 20 | 018102 | | | | | | | | | | | |
| | UltraChoice™ 8 | Χ | 21d | SQ | 100 | 017975 | • | | • | • | | • | • | • | • | | |
| | | | | | 500 | 019786 | | | | | | | | | | | |

^{*}Plus Coronavirus, Rotavirus, and Escherichia Coli.



1annheimia (Pasteurella) Haemolytica

1oraxella Bovis

lostridium Haemophilus Somnus

lostridium Chauvoei

lostridium Haemolyticum

lostridium Perfringens Type A lostridium Perfringens Type C

lostridium Perfringens Type

lostridium Septicum lostridium Sordellii lostridium Tetani

All data was gathered based on labels as listed in the Compendium of Veterinary Products. Always refer to label before using product, particularly to distinguish between levels of protection and control. MWI Animal Health is not responsible for typographical errors, or otherwise.

Liquid vitamins

| Liquid Vitaliili | | | Vitamin A | Vitamin D ₃ | Vitamin E | Selenium | Ascorbic Acid | Phytase Enzyme | 25 Hydroxyvitamin D ₃ |
|--------------------|--------|--------|-----------|------------------------|----------------|--------------|---------------|----------------|----------------------------------|
| Product | MWI# | Size | | | | | | | |
| Vit D Double D | 052544 | quart | | 4.0 mil IU | | | | | |
| Vit E-40% | 051341 | gallon | | | 400 IU/gm | | | | |
| Vit E and Selenium | 051342 | gallon | | | 450,000 IU/gal | 1,700 mg/gal | | | |
| Hy-D Sol Rovimix | 095785 | 67oz | | | | | | | 16.7 mg/oz |
| Vit D and E | 060704 | quart | | 500,000 IU/oz | 2,500 IU/oz | | | | |

| Brand | Manufacturer | Manufacturer Active ingredient | Color | Applicator Weight Duration | Weight | Duration | Lactating data | Tags/ unit | #IMM |
|-------------------------|--------------|---|-------------|----------------------------|----------|-------------------|-------------------|---------------|--------|
| Combo tags | | | | | | | | | |
| Double Barrel | Merck | 6.8% Lambdacyhalothrin/14% Pirimiphos | Red | Allflex | 9.5g | Up to 5 months | | 20 | 012491 |
| Tri-Zap" | Y-Tex | 3.2% Zeta-Cypermethrin/6.0% Abamectin & 20% Piperonyl Butoxide | Turquoise | Y-Tex | 9.5g | Up to 4 months | > | 20 | 065868 |
| Macrocylic lactone tags | tags | | | | | | | | |
| XP 820 | Y-Tex | 8% Abamectin / 20% Piperonyl Butoxide | Yellow | Y-Tex | 66 | Up to 5 months | \ \ \ | 20 | 034180 |
| Organophosphate tags | ags | | | | | | | | |
| Corathon | Elanco | 15% Coumaphos / 35% Diazinon | Slate | Allflex | 14g | Up to 5 months | | 20 | 035840 |
| Dominator | Merck | 20% Pirimiphos Methyl | Yellow | Allflex | 9.5g | Up to 5 months | | 20 | 011501 |
| | H | | | | L | | | 20 | 099124 |
| MAX 40 | Y-1ex | 40% Didzinon | Yellow | Y-lex | 159 | Up to 5 months | I | 100 | 099121 |
| | | | | 011 4 | Ļ | | | 20 | 001739 |
| Patriot | Eldnco | 40% Didzinon | Orange | AllTleX | DCI | S-5 months | ı | 120 | 001733 |
| Pyrethroid tags | | | | | | | | | |
| Cylence Ultra | Elanco | 80g/kg Betacyfluthrin 200g/kg Piperonyl Butoxide | Blue | Allflex | 14g | Up to 5 months | > | 20 | 021095 |
| Gardstar Plus | Y-Tex | 10% Permethrin | Red | Y-Tex | 9.5g | 4-5 months | > | 25 | 012641 |
| 1 4+ -0 | , T | | |); } | \ L | | \ | 20 | 021780 |
| Python II | 1 - I E X | 5% zeta-Cypernetriin/ zo% Piperonyi btx | Furple | 1 - I CX | %. %. | 4-5 monuns | > | 100 | 021781 |
| M M | > C L - > | | Q I I I | >-\\ | 7 | 7-7 | \ | 20 | 021778 |
| rydion ii Magnaii | XDI - | | ט ס ס | X D L | <u>0</u> | 4-3 111011115 | > | 100 | 021779 |
| Saber Extra | Merck | 10% Lambdacyhalothrin | Blue | Allflex | 9.5g | Up to 5 months | | 20 | 011503 |





Did you know elevated cortisol levels can reduce the efficacy of medication? Which is why no one recommends going for a run before surgery. Don't ask your cattle to do the same. Lighter, shorter and with our patented Slo-Inject® technology, our RDDs will help keep your herd healthy without the stress. *Pneu-Dart. When you can't afford to miss.*®







| Notes | | | |
|-------|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



| Notes | | | |
|-------|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



MWI Animal Health 3041 W. Pasadena Dr. Boise, ID 83705

MWI is not responsible for pricing, typographical or graphical errors. We make every effort to assure accuracy, although we cannot be responsible for changes in manufacturer programs or product availability.



Livestock product resource guide 2025