

2021

BOVINE



MIDWEST
BOVINE



Photo courtesy: River Bend Herefords, owned
by Bill Doig, Midwest Veterinary Supply OSR



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Monday - Friday
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A RELIABLE PARTNER FOR YOUR LARGE ANIMAL PRACTICE

At Midwest, we believe in developing a partnership so together we can grow your business. When you work with us, you have access to our highly skilled team of food animal specialists that can assist you with all of the extensive products and services Midwest can provide.

Dr. Robert G. Flickinger, a Large Animal Veterinarian from North Dakota, founded Midwest Veterinary Supply Inc. in 1961. As a family and employee-owned business for 60 years, we have experience you can rely on.

Ask your Midwest sales representative about the ways we can partner to make a difference in your food animal practice.



**MIDWEST
BOVINE**



For more information about Midwest Bovine
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MIDWEST BOVINE



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Calf Claimers
Calf Resuscitators



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4" COHESIVE WRAP

Easy hand tear, easily removed, non-stick on fur that is made of breathable construction and water resistant. 5 yards long. Made in the USA.

000.07012.2 | 4" Black
000.07014.2 | 4" Blue
000.07015.2 | 4" Purple
000.07016.2 | 4" Pink
000.07018.2 | 4" Red
000.07020.2 | 4" White
000.07022.2 | 4" Green
000.07031.2 | 4" Neon Orange
000.07033.2 | 4" Neon Yellow
000.07034.2 | 4" Neon Blue
000.07035.2 | 4" Neon Lime Green
000.07036.2 | 4" Neon Purple
000.07037.2 | 4" Neon Magenta
000.07030.2 | 4" Color Pack 18 Rolls/
Pack (3 Black, 3 Blue, 3 Pink, 3 Red, 3
White, 3 Green)
000.07037.2 | 4" Neon Color Pack 18
Rolls/Pack (3 of each neon color)



BANDAGE SCISSORS

Autoclavable and fashioned with medical grade stainless steel. Fine serrated blade on one side and sharp blade on the other side to better grab and efficiently cut bandages.

000.36493.2 | SUPERCUT 4.5"
000.36495.2 | SUPERCUT 5.5"
000.36505.2 | SUPERCUT SHARP/BLUNT - CAT 6.5"
000.36481.2 | 3.5" BANDAGE SCISSORS
000.36480.2 | 5.5" LEFTY BANDAGE SCISSORS
000.36497.2 | 7.25" BANDAGE SCISSORS



UTILITY SCISSORS

To be used alongside surgery to cut sturdy materials.

000.36477.2 | 7.5" UTILITY SCISSORS



DISPOSABLE PROCEDURE FACE MASK

Non-Woven Polypropylene.
95% Bacterial Filtration Efficiency.
Latex free. 50 count per box.

000.01000.3 | Non-Surgical Face
Mask with Ear Loops



WASHABLE LINEN FACE MASK

Reusable fabric masks: 50% poly -
50% cotton blend, autoclavable
and washable, moisture
repellent and anti-microbial,
non-sterile. 25 count/pack.

000.99330.2 | Washable Linen Face
Mask



NON-SURGICAL CPE THUMB LOOP GOWN

Thumb-loop cuff prevents sleeves
from sliding up, perforated apron
neck and open back over-the-
head design, breathable and
comfortable, latex free.

Open Back Design

000.00010.3 | Isolation Gown, Blue, Universal
000.00012.3 | Isolation Gown Blue, XL

Closed Back Design

000.00020.3 | Isolation Gown, Yellow, Universal
000.00025.3 | Isolation Gown, Yellow, XL



LATEX EXAM GLOVES

High level of touch sensitivity, wear for extended periods of time, very elastic and strong, biodegradable with a high level of barrier protection.
100 Gloves.



000.30040.2 | XL
000.30042.2 | LG
000.30044.2 | MED
000.30046.2 | SM

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Latex-free, textured finger tips, strong beaded cuff, snug and comfortable fit, high level of sensitivity, wear for extended periods of time, made out of synthetic rubber with a high level of barrier protection. 200 Gloves.



000.30070.2 | XL
000.30072.2 | LG
000.30074.2 | MED
000.30076.2 | SM

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Latex-free, looser fit, short-term option, lightweight alternative, great for everyday use in many aspects, general care, to be disposed after each use.
100 Gloves.



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000.30054.2 | MED
000.30052.2 | LG
000.30056.2 | SM

GAUZE SPONGES

Premium 100% cotton, non-sterile.



Woven

000.30000.2	2" X 2"	8 PLY	200 CT
000.30002.2	2" X 2"	12 PLY	200 CT
000.30004.2	3" X 3"	12 PLY	200 CT
000.30006.2	4" X 4"	8 PLY	200 CT
000.30008.2	4" X 4"	12 PLY	200 CT

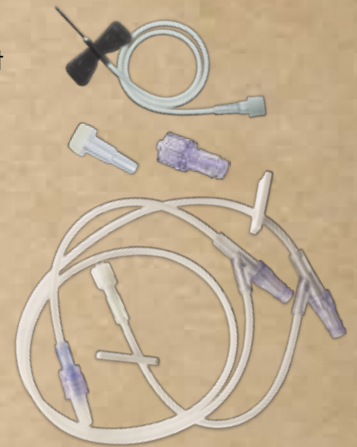
Non-Woven

000.30150.2	2" X 2"	4 PLY	200 CT
000.30152.2	2" X 2"	6 PLY	200 CT
000.30154.2	3" X 3"	4 PLY	200 CT
000.30156.2	4" X 4"	4 PLY	200 CT
000.30158.2	4" X 4"	8 PLY	100 CT

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MULTIMIN® 90

An injectable aqueous supplemental source
of zinc, manganese, selenium and copper

KEEP OUT OF REACH OF CHILDREN

CAUTION: FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER
OF A LICENSED VETERINARIAN.

ACTIVE SUBSTANCES PER ML:

Zinc 60 mg/mL
Manganese 10 mg/mL
Selenium 5 mg/mL
Copper 15 mg/mL

OTHER SUBSTANCES:

Chlorocresol 0.1% w/v (as preservative).

DOSAGE RECOMMENDATIONS:

CALVES: Up to 1 year 1 mL/per 100 lbs. bodyweight
CATTLE: From 1-2 years 1 mL/per 150 lbs. bodyweight
CATTLE: Over 2 years 1 mL/per 200 lbs. bodyweight

PRECAUTION:

Selenium and copper are toxic if administered in excess.
Always follow recommended label dose.

Do not overdose.

It is recommended that accurate body weight is determined
prior to treatment.

Do not use concurrently with other injectable selenium and copper products

Do not use concurrently with selenium or copper boluses.

Do not use in emaciated cattle with a BCS of 1 in dairy or 1-3 in beef.

Consult your veterinarian.

CAUTION:

Slight local reaction may occur for about 30 seconds after injection. A
slight swelling may be observed at injection site for a few days after
administration. Use standard aseptic procedures during administration of
injections to reduce the risk of injection site abscesses or lesions.

WITHDRAWAL PERIOD:

Meat 14 days. Milk zero withdrawal.

DIRECTIONS:

This product is only for use in cattle.

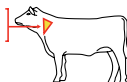
MULTIMIN® 90 is to be given subcutaneously (under the skin) ONLY.

It is recommended to administer the product in accordance with Beef
Quality Assurance (BQA) guidelines. Minimum distance between injection
sites for the MULTIMIN® 90 product and other injection sites should be
at least 4 inches.

Inject under the loose skin of the middle of the side of the neck. Max
volume per injection site is 7 mL.

Subcutaneous injection in
middle of side of neck.

Store Between 15°C and
30°C (59°F and 86°F).



SUPPLEMENTATION PROGRAM	
BULLS	3 times per year
BEEF COWS	4 weeks before breeding 4 weeks before calving
DAIRY COWS	4 weeks before calving 4 weeks before insemination at dry-off
CALVES	at birth at 3 months and/or weaning
HEIFERS	every 3 months - especially 4 weeks before breeding

DOSAGE TABLE			
ANIMAL WEIGHT (lbs)	CALVES UP TO 1 YEAR 1 mL/100 lb BW	CATTLE 1 - 2 YEARS 1 mL/150 lb BW	CATTLE > 2 YEARS 1 mL/200 lb BW
50	0.5 mL	-	-
100	1 mL	-	-
150	1.5 mL	-	-
200	2 mL	-	-
300	3 mL	-	-
400	4 mL	-	-
500	5 mL	-	-
600	6 mL	-	-
700	7 mL	-	-
800	-	5.3 mL	-
900	-	6 mL	-
1000	-	6.6 mL	5 mL
1100	-	-	5.5 mL
1200	-	-	6 mL
1300	-	-	6.5 mL
1400	-	-	7 mL

Packaged in 100 mL & 500 mL size

NDC No. 49920-006-01 NDC No. 49920-006-05

TAKE TIME OBSERVE LABEL DIRECTIONS

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BVD VIRUS TYPE 1B IS ON THE RISE.

Bovine viral diarrhea (BVD) infection can disintegrate herd productivity. And if you're using a vaccine, like BOVI-SHIELD GOLD®, that isn't labeled for the most prevalent strain, your cattle could be at risk. Play it safe. Choose the only vaccines specifically labeled to protect against Type 1b: Express® FP and Pyramid® + Presponse® SQ. Know more at BVDVTracker.com.

69%

2019¹

61%

2008²

54%

1998²

41%

1988²

Percent of all BVDV cases
attributed to **TYPE 1B**.

¹ Data on file, Boehringer Ingelheim and BVDVTracker.com.

Data collected November 1, 2019 through November 1, 2019.

² Ridpath JF, Lovell G, Neill JD, et al. Change in predominance of bovine viral diarrhea virus subgenotypes among samples submitted to a diagnostic laboratory over a 20-year time span. *J Vet Diagn Invest* 2011;23(2):185-193.

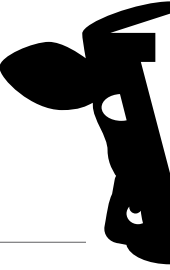
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+ PRESPONSE® SQ**

RELENTLESS PROTECTION





RESPIRATORY & REPRODUCTIVE VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
BVD I & II			
MERCK ANIMAL HEALTH	349.08965.1	10 DS	BOVILIS® VISTA® BVD CFP
MERCK ANIMAL HEALTH	349.08967.1	50 DS	BOVILIS® VISTA® BVD CFP
ZOETIS, INC.	554.11180.1	10 DS	BOVI-SHIELD GOLD® BVD
ZOETIS, INC.	554.11183.1	50 DS	BOVI-SHIELD GOLD® BVD
BVD I & II-M. Haemolytica			
ZOETIS, INC.	554.50065.1	10 DS	ONE SHOT® BVD
ZOETIS, INC.	554.50067.1	50 DS	ONE SHOT® BVD
Haemophilus Somnus Bacterin			
ELANCO ANIMAL HEALTH	296.05660.1	50 DS	SOMNU SHIELD®
ZOETIS, INC.	554.62210.1	10 DS	SOMUBAC®
ZOETIS, INC.	554.62215.1	50 DS	SOMUBAC®
Haemophilus Somnus-M. Haemolytica-P. Multocida Bacterin			
BOEHRINGER INGELHEIM	090.10050.1	10 DS	BAR SOMNUS 2P™
BOEHRINGER INGELHEIM	090.10060.1	50 DS	BAR SOMNUS 2P™
IBR			
BOEHRINGER INGELHEIM	090.34600.1	50 DS	EXPRESS® I
BOEHRINGER INGELHEIM	090.62265.1	50 DS	PYRAMID® IBR
ELANCO ANIMAL HEALTH	406.85000.1	10 DS	TITANIUM® IBR
ELANCO ANIMAL HEALTH	406.85010.1	50 DS	TITANIUM® IBR
ZOETIS, INC.	554.11170.1	50 DS	BOVI-SHIELD® IBR
IBR-BVD I & II			
BOEHRINGER INGELHEIM	090.34680.1	50 DS	EXPRESS® 3
BOEHRINGER INGELHEIM	090.62215.1	50 DS	PYRAMID® 3
ELANCO ANIMAL HEALTH	406.85025.1	10 DS	TITANIUM® 3
ELANCO ANIMAL HEALTH	406.85030.1	50 DS	TITANIUM® 3
HUVEPHARMA, INC.	801.02700.1	50 DS	RESPIVAX™ 3
ZOETIS, INC.	554.11175.1	10 DS	BOVI-SHIELD GOLD® IBR-BVD
ZOETIS, INC.	554.11150.1	50 DS	BOVI-SHIELD GOLD® IBR-BVD
IBR-BVD I & II-BRSV-PI3			
BOEHRINGER INGELHEIM	090.13020.1	10 DS	EXPRESS® FP 5
BOEHRINGER INGELHEIM	090.13025.1	50 DS	EXPRESS® FP 5
BOEHRINGER INGELHEIM	090.36000.1	10 DS	EXPRESS® 5
BOEHRINGER INGELHEIM	090.36020.1	50 DS	EXPRESS® 5
BOEHRINGER INGELHEIM	090.62140.1	10 DS	PRISM™ 5
BOEHRINGER INGELHEIM	090.62150.1	50 DS	PRISM™ 5
BOEHRINGER INGELHEIM	090.62245.1	10 DS	PYRAMID® 5
BOEHRINGER INGELHEIM	090.62250.1	50 DS	PYRAMID® 5
BOEHRINGER INGELHEIM	090.54035.1	10 DS	TRIANGLE® 5
BOEHRINGER INGELHEIM	090.54040.1	50 DS	TRIANGLE® 5
ELANCO ANIMAL HEALTH	406.85045.1	10 DS	TITANIUM® 5
ELANCO ANIMAL HEALTH	406.85050.1	50 DS	TITANIUM® 5
ELANCO ANIMAL HEALTH	296.05730.1	10 DS	VIRA SHIELD® 6
ELANCO ANIMAL HEALTH	296.05731.1	50 DS	VIRA SHIELD® 6
HUVEPHARMA, INC.	801.02710.1	10 DS	RESPIVAX™ 5



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Safe for use on all cattle, even pregnant cows and calves nursing pregnant cows.

For more information, talk to your local Elanco representative or visit virashield.com.

The label contains complete use information, including cautions and warnings. Always read, understand and follow the label and use directions.

¹Perry GA, Larimore EL, Crosswhite MR, et al. Safety of vaccination with an inactivated or modified live viral reproductive vaccine when compared to sterile saline in beef cows. J J Vet Sci Res. 2016;2(3):33.

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PM-US-19-1267

Elanco



BIOLOGICALS

Respiratory & Reproductive Vaccines

RESPIRATORY & REPRODUCTIVE VACCINES

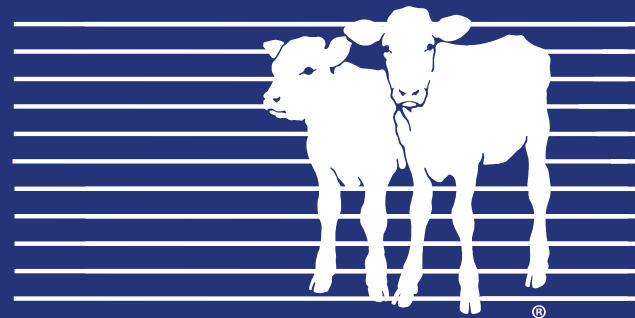
MANUFACTURER	MVS#	SIZE	PRODUCT
IBR-BVD I & II-BRSV-PI3 (Continued)			
HUVEPHARMA, INC.	801.02713.1	50 DS	RESPIVAX™ 5
MERCK ANIMAL HEALTH	349.93100.1	10 DS	VISTA® 5 SQ
MERCK ANIMAL HEALTH	349.93120.1	50 DS	VISTA® 5 SQ
ZOETIS, INC.	554.11070.1	10 DS	BOVI-SHIELD GOLD® FP® 5
ZOETIS, INC.	554.11075.1	50 DS	BOVI-SHIELD GOLD® FP® 5
ZOETIS, INC.	554.11055.1	5 DS	BOVI-SHIELD GOLD® 5
ZOETIS, INC.	554.11045.1	10 DS	BOVI-SHIELD GOLD® 5
ZOETIS, INC.	554.11050.1	50 DS	BOVI-SHIELD GOLD® 5
ZOETIS, INC.	554.14080.1	5 DS	CATTLEMASTER® GOLD FP® 5
ZOETIS, INC.	554.14085.1	10 DS	CATTLEMASTER® GOLD FP® 5
ZOETIS, INC.	554.14090.1	25 DS	CATTLEMASTER® GOLD FP® 5
IBR-BVD I & II-BRSV-PI3-Haemophilus somnus			
BOEHRINGER INGELHEIM	090.36100.1	10 DS	EXPRESS® 5 - HS
BOEHRINGER INGELHEIM	090.36120.1	50 DS	EXPRESS® 5 - HS
ELANCO ANIMAL HEALTH	296.05732.1	10 DS	VIRA SHIELD® 6 + SOMNUS
ELANCO ANIMAL HEALTH	296.05733.1	50 DS	VIRA SHIELD® 6 + SOMNUS
IBR-BVD I & II-BRSV-PI3-Lepto 5 way			
BOEHRINGER INGELHEIM	090.37150.1	5 DS	EXPRESS® FP 10
BOEHRINGER INGELHEIM	090.37155.1	10 DS	EXPRESS® FP 10
BOEHRINGER INGELHEIM	090.37160.1	50 DS	EXPRESS® FP 10
BOEHRINGER INGELHEIM	090.62200.1	10 DS	PYRAMID® 10
BOEHRINGER INGELHEIM	090.62205.1	50 DS	PYRAMID® 10
ELANCO ANIMAL HEALTH	296.05729.1	10 DS	VIRA SHIELD® 6 + L5
ELANCO ANIMAL HEALTH	296.05735.1	50 DS	VIRA SHIELD® 6 + L5
MERCK ANIMAL HEALTH	349.93000.1	5 DS	VISTA® 5 L5 SQ
MERCK ANIMAL HEALTH	349.93020.1	10 DS	VISTA® 5 L5 SQ
MERCK ANIMAL HEALTH	349.93040.1	50 DS	VISTA® 5 L5 SQ
ZOETIS, INC.	554.11095.1	5 DS	BOVI-SHIELD GOLD® FP® 5 L5
ZOETIS, INC.	554.11085.1	10 DS	BOVI-SHIELD GOLD® FP® 5 L5
ZOETIS, INC.	554.11090.1	50 DS	BOVI-SHIELD GOLD® FP® 5 L5
ZOETIS, INC.	554.14105.1	5 DS	CATTLEMASTER® GOLD FP® 5 L5
ZOETIS, INC.	554.14110.1	10 DS	CATTLEMASTER® GOLD FP® 5 L5
ZOETIS, INC.	554.14115.1	25 DS	CATTLEMASTER® GOLD FP® 5 L5
IBR-BVD I & II-BRSV-PI3-Lepto 5 way+Hardjo-bovis			
BOEHRINGER INGELHEIM	090.54065.1	10 DS	TRIANGLE® 10 HB
BOEHRINGER INGELHEIM	090.54070.1	50 DS	TRIANGLE® 10 HB
ELANCO ANIMAL HEALTH	406.65000.1	10 DS	MASTER GUARD® 10 HB
ELANCO ANIMAL HEALTH	406.65010.1	25 DS	MASTER GUARD® 10 HB
ELANCO ANIMAL HEALTH	406.85060.1	10 DS	TITANIUM® 5 L5 HB
ELANCO ANIMAL HEALTH	406.85065.1	50 DS	TITANIUM® 5 L5 HB
ELANCO ANIMAL HEALTH	296.05743.1	10 DS	VIRA SHIELD® 6 + L5 HB
ELANCO ANIMAL HEALTH	296.05744.1	50 DS	VIRA SHIELD® 6 + L5 HB
ZOETIS, INC.	554.11098.1	5 DS	BOVI-SHIELD GOLD® FP® 5 L5 HB
ZOETIS, INC.	554.11096.1	10 DS	BOVI-SHIELD GOLD® FP® 5 L5 HB
ZOETIS, INC.	554.11097.1	50 DS	BOVI-SHIELD GOLD® FP® 5 L5 HB

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Made with whole bovine colostrum, trust Colostrum® to supplement or replace maternal colostrum for your newborn calves.



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Nasalgen[®] 3-PMH

The **first and only** intranasal vaccine with both viral and bacterial pneumonia protection.

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Nasalgen[®] 3-PMH is a one-of-a-kind respiratory vaccine that is safe to use in young calves for a strong, healthy foundation. And a unique BluShadow[®] diluent means there's no second-guessing which animals have been vaccinated. This cattle friendly vaccine is one more way Merck Animal Health Works for you.

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IBR, BRSV, PI₃

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OF BRD PROTECTION**



NEW

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IBR, BRSV, PI₃

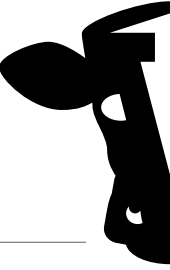
+ *Pasteurella multocida*

+ *Mannheimia haemolytica*

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 **MERCK**
Animal Health



RESPIRATORY & REPRODUCTIVE VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
IBR-BVD I & II-BRSV-PI3-Lepto 5 way+Hardjo-bovis-Haemophilus somnus			
ELANCO ANIMAL HEALTH	296.05746.1	50 DS	VIRA SHIELD® 6 + L5 HB SOMNUS
IBR-BVD I & II-BRSV-PI3-M. Haemolytica			
BOEHRINGER INGELHEIM	090.62255.1	10 DS	PYRAMID® 5 + PRESPONSE® SQ
BOEHRINGER INGELHEIM	090.62260.1	50 DS	PYRAMID® 5 + PRESPONSE® SQ
ZOETIS, INC.	554.11190.1	5 DS	BOVI-SHIELD GOLD ONE SHOT™
ZOETIS, INC.	554.11192.1	10 DS	BOVI-SHIELD GOLD ONE SHOT™
ZOETIS, INC.	554.11194.1	50 DS	BOVI-SHIELD GOLD ONE SHOT™
IBR-BVD I & II-BRSV-PI3-M. Haemolytica-P. Multocida			
HUVEPHARMA, INC.	801.02716.1	10 DS	RESPIVAX™ 5 + PHM
HUVEPHARMA, INC.	801.02719.1	50 DS	RESPIVAX™ 5 + PHM
MERCK ANIMAL HEALTH	349.93300.1	10 DS	VISTA® ONCE SQ
MERCK ANIMAL HEALTH	349.93320.1	50 DS	VISTA® ONCE SQ
IBR-BVD I & II-BRSV-PI3-Vibrio-Lepto 5 way			
BOEHRINGER INGELHEIM	090.36050.1	10 DS	EXPRESS® FP 5 - VL5
BOEHRINGER INGELHEIM	090.36055.1	50 DS	EXPRESS® FP 5 - VL5
ELANCO ANIMAL HEALTH	296.05727.1	10 DS	VIRA SHIELD® 6 + VL5
ELANCO ANIMAL HEALTH	296.05728.1	50 DS	VIRA SHIELD® 6 + VL5
MERCK ANIMAL HEALTH	349.93200.1	10 DS	VISTA® 5 VL5 SQ
MERCK ANIMAL HEALTH	349.93220.1	50 DS	VISTA® 5 VL5 SQ
ZOETIS, INC.	554.11110.1	10 DS	BOVI-SHIELD GOLD® FP® 5 VL5
ZOETIS, INC.	554.11115.1	50 DS	BOVI-SHIELD GOLD® FP® 5 VL5
IBR-BVD I & II-BRSV-PI3-Vibrio-Lepto 5 way-Haemophilus somnus			
ELANCO ANIMAL HEALTH	296.05740.1	10 DS	VIRA SHIELD® 6 + VL5 SOMNUS
ELANCO ANIMAL HEALTH	296.05742.1	50 DS	VIRA SHIELD® 6 + VL5 SOMNUS
IBR-BVD I & II-BRSV-PI3-Vibrio-Lepto 5 way-Hardjo-bovis			
ELANCO ANIMAL HEALTH	296.05751.1	10 DS	VIRA SHIELD® 6 + VL5 HB
ELANCO ANIMAL HEALTH	296.05752.1	50 DS	VIRA SHIELD® 6 + VL5 HB
IBR-BVD I & II-BRSV-PI3-Vibrio-Lepto 5 way-Hardjo-bovis-Haemophilus somnus			
ELANCO ANIMAL HEALTH	296.05753.1	10 DS	VIRA SHIELD® 6 + VL5 HB SOMNUS
ELANCO ANIMAL HEALTH	296.05754.1	50 DS	VIRA SHIELD® 6 + VL5 HB SOMNUS
IBR-BVD I & II-Lepto P			
ELANCO ANIMAL HEALTH	406.85035.1	50 DS	TITANIUM 3® LP
IBR-BVD I & II-Lepto P-Hardjo			
BOEHRINGER INGELHEIM	090.62220.1	50 DS	PYRAMID® 3 LPH
IBR-BVD I & II-M. Haemolytica			
BOEHRINGER INGELHEIM	090.62224.1	50 DS	PYRAMID® 3 + PRESPONSE® SQ
IBR-BVD I & II-M. Haemolytica-P. Multocida			
HUVEPHARMA, INC.	801.02703.1	10 DS	RESPIVAX™ 3 + PHM
HUVEPHARMA, INC.	801.02706.1	50 DS	RESPIVAX™ 3 + PHM
IBR-BVD I & II-PI3			
ZOETIS, INC.	554.11040.1	50 DS	BOVI-SHIELD GOLD® 4
IBR-BVD I & II-PI3-Lepto 5 way			
ELANCO ANIMAL HEALTH	406.85040.1	50 DS	TITANIUM® 4 L5

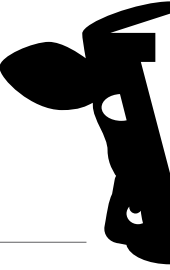


BIOLOGICALS

Respiratory & Reproductive Vaccines

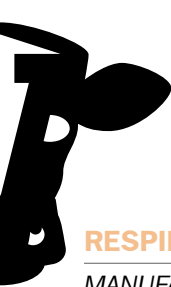
RESPIRATORY & REPRODUCTIVE VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
IBR-BVD I & II-PI3-Vibrio-Lepto 5 way			
ZOETIS, INC.	554.53070.1	10 DS	PREGGUARD® GOLD FP® 10
ZOETIS, INC.	554.53075.1	50 DS	PREGGUARD® GOLD FP® 10
IBR-BVD I & II-Vibrio-Lepto 5 way			
BOEHRINGER INGELHEIM	090.34700.1	10 DS	EXPRESS® FP 3 - VL5
BOEHRINGER INGELHEIM	090.34725.1	50 DS	EXPRESS® FP 3 - VL5
ELANCO ANIMAL HEALTH	296.05465.1	50 DS	VIRA SHIELD® 4 + VL5
IBR-BVD I & II-Vibrio-Lepto 5 way-Hardjo-bovis			
ELANCO ANIMAL HEALTH	296.05482.1	50 DS	VIRA SHIELD® 4 + VL5 HB
IBR-BVD I-BRSV-PI3			
BOEHRINGER INGELHEIM	090.62230.1	50 DS	PYRAMID® 4
IBR-BVD I-BRSV-PI3-M. Haemolytica			
BOEHRINGER INGELHEIM	090.54025.1	10 DS	TRIANGLE® 4 + PH-K
BOEHRINGER INGELHEIM	090.54030.1	50 DS	TRIANGLE® 4 + PH-K
IBR-BVD I-BRSV-PI3-Vibrio-Lepto 5 way			
ZOETIS, INC.	554.14065.1	10 DS	CATTLEMASTER® 4 + VL5
ZOETIS, INC.	554.14055.1	25 DS	CATTLEMASTER® 4 + VL5
IBR-Lepto P			
ELANCO ANIMAL HEALTH	406.85015.1	50 DS	TITANIUM® IBR-LP
IBR-PI3			
MERCK ANIMAL HEALTH	349.51000.1	10 DS	NASALGEN® IP
MERCK ANIMAL HEALTH	349.51020.1	50 DS	NASALGEN® IP
IBR-PI3-BRSV			
ELANCO ANIMAL HEALTH	406.85020.1	50 DS	TITANIUM® BRSV 3
MERCK ANIMAL HEALTH	349.51022.1	25 X 1 DS	BOVILIS® NASALGEN® 3
MERCK ANIMAL HEALTH	349.51024.1	10 DS	BOVILIS® NASALGEN® 3
MERCK ANIMAL HEALTH	349.51026.1	50 DS	BOVILIS® NASALGEN® 3
ZOETIS, INC.	554.25100.1	25 X 1 DS	INFORCE™ 3
ZOETIS, INC.	554.25102.1	10 DS	INFORCE™ 3
ZOETIS, INC.	554.25104.1	25 DS	INFORCE™ 3
ZOETIS, INC.	554.25106.1	50 DS	INFORCE™ 3
IBR-PI3-BRSV-M. Haemolytica-P. Multocida			
MERCK ANIMAL HEALTH	349.08969.1	25 X 1 DS	BOVILIS® NASALGEN® 3-PMH
MERCK ANIMAL HEALTH	349.08971.1	10 DS	BOVILIS® NASALGEN® 3-PMH
MERCK ANIMAL HEALTH	349.08973.1	50 DS	BOVILIS® NASALGEN® 3-PMH
Lepto 5 way			
ELANCO ANIMAL HEALTH	296.05150.1	10 DS	LEPTO SHIELD® 5
ELANCO ANIMAL HEALTH	296.05160.1	50 DS	LEPTO SHIELD® 5
MERCK ANIMAL HEALTH	349.40020.1	50 DS	L5 SQ
ZOETIS, INC.	554.41050.1	10 DS	LEPTOFERM-5®
ZOETIS, INC.	554.41055.1	50 DS	LEPTOFERM-5®
Lepto 5 way-Hardjo-bovis			
BOEHRINGER INGELHEIM	090.50000.1	50 DS	CITADEL® L5
ELANCO ANIMAL HEALTH	296.02100.1	10 DS	REPROSTAR® L5 HB
ELANCO ANIMAL HEALTH	296.02105.1	50 DS	REPROSTAR® L5 HB
ZOETIS, INC.	554.62270.1	10 DS	SPIROVAC® L5
ZOETIS, INC.	554.62275.1	50 DS	SPIROVAC® L5



RESPIRATORY & REPRODUCTIVE VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
Lepto-Hardjo-bovis			
ZOETIS, INC.	554.62260.1	10 DS	SPIROVAC®
ZOETIS, INC.	554.62265.1	50 DS	SPIROVAC®
M. Haemolytica			
BOEHRINGER INGELHEIM	090.62120.1	10 DS	PRESPONSE® SQ
BOEHRINGER INGELHEIM	090.62130.1	50 DS	PRESPONSE® SQ
ELANCO ANIMAL HEALTH	296.02020.1	10 DS	NUPLURA™ PH
ELANCO ANIMAL HEALTH	296.02025.1	50 DS	NUPLURA™ PH
ZOETIS, INC.	554.50050.1	5 DS	ONE SHOT®
ZOETIS, INC.	554.50055.1	10 DS	ONE SHOT®
ZOETIS, INC.	554.50060.1	50 DS	ONE SHOT®
M. Haemolytica-P. Multocida			
BOEHRINGER INGELHEIM	090.62100.1	10 DS	PRESPONSE® HM
BOEHRINGER INGELHEIM	090.62110.1	50 DS	PRESPONSE® HM
COLORADO SERUM COMPANY	200.20000.1	10 DS	MANNHEIMIA HAEMOLYTICA-PASTEURELLA MULTOCIDA BACTERIN
COLORADO SERUM COMPANY	200.20010.1	50 DS	MANNHEIMIA HAEMOLYTICA-PASTEURELLA MULTOCIDA BACTERIN
HUVEPHARMA, INC.	801.08205.1	10 DS	PULMO-GUARD® PH-M
HUVEPHARMA, INC.	801.08210.1	50 DS	PULMO-GUARD® PH-M
HUVEPHARMA, INC.	801.08220.1	10 DS	PULMO-GUARD® PHM-1
HUVEPHARMA, INC.	801.08225.1	50 DS	PULMO-GUARD® PHM-1
MERCK ANIMAL HEALTH	349.59028.1	25 X 1 DS	ONCE PMH® IN
MERCK ANIMAL HEALTH	349.59030.1	10 DS	ONCE PMH® IN
MERCK ANIMAL HEALTH	349.59040.1	50 DS	ONCE PMH® IN
MERCK ANIMAL HEALTH	349.59000.1	10 DS	ONCE PMH® SQ
MERCK ANIMAL HEALTH	349.59020.1	50 DS	ONCE PMH® SQ
Mycoplasma			
HUVEPHARMA, INC.	801.01890.1	10 DS	MYCO B ONE DOSE™
HUVEPHARMA, INC.	801.01895.1	50 DS	MYCO B ONE DOSE™
Tritrichomonas Foetus			
BOEHRINGER INGELHEIM	090.54075.1	10 DS	TRICHGUARD®
BOEHRINGER INGELHEIM	090.54080.1	50 DS	TRICHGUARD®
Tritrichomonas Foetus-Vibrio-Lepto 5 way			
BOEHRINGER INGELHEIM	090.54085.1	10 DS	TRICHGUARD® V5L
BOEHRINGER INGELHEIM	090.54090.1	50 DS	TRICHGUARD® V5L
Vibrio			
ZOETIS, INC.	554.71150.1	50 DS	VIBRIN®
Vibrio-Lepto 5 way			
ELANCO ANIMAL HEALTH	296.05224.1	10 DS	VIB SHIELD® PLUS L5
ELANCO ANIMAL HEALTH	296.05225.1	50 DS	VIB SHIELD® PLUS L5



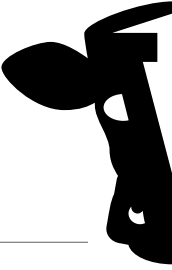
BIOLOGICALS

Respiratory & Reproductive Vaccines

RESPIRATORY & REPRODUCTIVE VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
Vibrio-Lepto 5 way (Continued)			
MERCK ANIMAL HEALTH	349.93720.1	50 DS	VL5 SQ
ZOETIS, INC.	554.62305.1	10 DS	STAYBRED™ VL5
ZOETIS, INC.	554.62310.1	50 DS	STAYBRED™ VL5
Vibrio-Lepto 5 way-Hardjo-bovis			
BOEHRINGER INGELHEIM	090.23500.1	10 DS	CITADEL® VL5
BOEHRINGER INGELHEIM	090.23525.1	50 DS	CITADEL® VL5
ELANCO ANIMAL HEALTH	296.02110.1	10 DS	REPROSTAR® VL5 HB
ELANCO ANIMAL HEALTH	296.02115.1	50 DS	REPROSTAR® VL5 HB
ZOETIS, INC.	554.62280.1	10 DS	SPIROVAC® VL5
ZOETIS, INC.	554.62285.1	50 DS	SPIROVAC® VL5





CLOSTRIDIAL VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
Clostridia 7-way			
BOEHRINGER INGELHEIM	090.00150.1	10 DS	ALPHA-7™
BOEHRINGER INGELHEIM	090.00160.1	50 DS	ALPHA-7™
BOEHRINGER INGELHEIM	090.11100.1	10 DS	BAR-VAC® 7
BOEHRINGER INGELHEIM	090.11110.1	50 DS	BAR-VAC® 7
BOEHRINGER INGELHEIM	090.21000.1	10 DS	CALIBER® 7
BOEHRINGER INGELHEIM	090.21020.1	50 DS	CALIBER® 7
BOEHRINGER INGELHEIM	090.21040.1	250 DS	CALIBER® 7
MERCK ANIMAL HEALTH	349.92100.1	10 DS	VISION® 7 WITH SPUR®
MERCK ANIMAL HEALTH	349.92120.1	50 DS	VISION® 7 WITH SPUR®
MERCK ANIMAL HEALTH	349.92140.1	250 DS	VISION® 7 WITH SPUR®
ZOETIS, INC.	554.68015.1	10 DS	ULTRABAC® 7
ZOETIS, INC.	554.68020.1	50 DS	ULTRABAC® 7
ZOETIS, INC.	554.68025.1	200 DS	ULTRABAC® 7
ZOETIS, INC.	554.68115.1	10 DS	ULTRACHOICE™ 7
ZOETIS, INC.	554.68120.1	50 DS	ULTRACHOICE™ 7
ZOETIS, INC.	554.68125.1	250 DS	ULTRACHOICE™ 7
Clostridia 7-way-Haemophilus Somnus Bacterin-Toxoid			
BOEHRINGER INGELHEIM	090.11240.1	10 DS	BAR VAC® 7/SOMNUS
BOEHRINGER INGELHEIM	090.11250.1	50 DS	BAR VAC® 7/SOMNUS
BOEHRINGER INGELHEIM	090.11260.1	200 DS	BAR VAC® 7/SOMNUS
MERCK ANIMAL HEALTH	349.92300.1	10 DS	VISION® 7 SOMNUS WITH SPUR®
MERCK ANIMAL HEALTH	349.92320.1	50 DS	VISION® 7 SOMNUS WITH SPUR®
MERCK ANIMAL HEALTH	349.92340.1	250 DS	VISION® 7 SOMNUS WITH SPUR®
ZOETIS, INC.	554.68040.1	10 DS	ULTRABAC® 7/SOMUBAC®
ZOETIS, INC.	554.68045.1	50 DS	ULTRABAC® 7/SOMUBAC®
ZOETIS, INC.	554.68050.1	200 DS	ULTRABAC® 7/SOMUBAC®
Clostridia 7-way-Pasteurella Haemolytica Bacterin-Toxoid			
ZOETIS, INC.	554.50070.1	10 DS	ONE SHOT ULTRA™ 7
ZOETIS, INC.	554.50075.1	50 DS	ONE SHOT ULTRA™ 7
Clostridia 7-way-Moraxella Bovis Bacterin-Toxoid			
BOEHRINGER INGELHEIM	090.00240.1	10 DS	ALPHA-7/MB™ -1
BOEHRINGER INGELHEIM	090.00250.1	50 DS	ALPHA-7/MB™ -1
MERCK ANIMAL HEALTH	349.70000.1	10 DS	PILIGUARD® PINKEYE + 7
MERCK ANIMAL HEALTH	349.70010.1	50 DS	PILIGUARD® PINKEYE + 7
MERCK ANIMAL HEALTH	349.92200.1	10 DS	20/20 VISION® 7 WITH SPUR®
MERCK ANIMAL HEALTH	349.92220.1	50 DS	20/20 VISION® 7 WITH SPUR®
Clostridia 8-way			
BOEHRINGER INGELHEIM	090.11300.1	10 DS	BAR-VAC® 8
BOEHRINGER INGELHEIM	090.11310.1	50 DS	BAR-VAC® 8
MERCK ANIMAL HEALTH	349.12040.1	10 DS	COVEXIN® 8
MERCK ANIMAL HEALTH	349.12050.1	50 DS	COVEXIN® 8

Moraxella bovoculi Bacterin

World's First Commercially Available Moraxella bovoculi Pinkeye Preventative!

- **8 Different M. bovoculi Isolates**
- **Cost Effective for All Cattle Herds**
- **Proven Safety Record**
- **More Convenient than Autogenous Programs**



Addison Biological Laboratory, Inc. announces the approval of the world's first commercial Moraxella bovoculi vaccine for the prevention of pinkeye in cattle. This USDA conditionally licensed product is the first of this kind. Previously the only method of prevention against Moraxella bovoculi was autogenous services. This vaccine signifies a breakthrough in convenience for the large number of veterinarians and herd owners battling the challenging problem of pinkeye caused by Moraxella bovoculi. This product license is conditional; efficacy and potency have not been fully demonstrated.

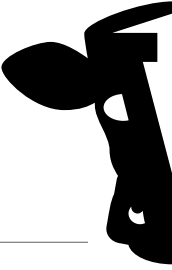


From the LEADERS in pinkeye prevention!



Addison Biological Laboratory, Inc.
www.addisonlabs.com
info@addisonlabs.com
800-331-2530





CLOSTRIDIAL VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
Clostridia 8-way (Continued)			
MERCK ANIMAL HEALTH	349.92400.1	10 DS	VISION® 8 WITH SPUR®
MERCK ANIMAL HEALTH	349.92420.1	50 DS	VISION® 8 WITH SPUR®
ZOETIS, INC.	554.68065.1	10 DS	ULTRABAC® 8
ZOETIS, INC.	554.68070.1	50 DS	ULTRABAC® 8
ZOETIS, INC.	554.68075.1	200 DS	ULTRABAC® 8
ZOETIS, INC.	554.68140.1	10 DS	ULTRACHOICE™ 8
ZOETIS, INC.	554.68145.1	50 DS	ULTRACHOICE™ 8
ZOETIS, INC.	554.68150.1	250 DS	ULTRACHOICE™ 8
Clostridia 8-way-Haemophilus Somnus Bacterin-Toxoid			
MERCK ANIMAL HEALTH	349.92500.1	10 DS	VISION® 8 SOMNUS WITH SPUR®
MERCK ANIMAL HEALTH	349.92520.1	50 DS	VISION® 8 SOMNUS WITH SPUR®
Clostridia 8-way-Pasteurella Haemolytica Bacterin-Toxoid			
ZOETIS, INC.	554.50085.1	10 DS	ONE SHOT ULTRA™ 8
ZOETIS, INC.	554.50090.1	50 DS	ONE SHOT ULTRA™ 8
Clostridia 9-way			
MERCK ANIMAL HEALTH	349.10200.1	10 DS	CAVALRY™ 9
MERCK ANIMAL HEALTH	349.10220.1	50 DS	CAVALRY™ 9
MERCK ANIMAL HEALTH	349.10230.1	125 DS	CAVALRY™ 9
Clostridium Perfringens Type A Toxoid			
ELANCO ANIMAL HEALTH	296.01200.1	10 DS	CL. PERFRINGENS TYPE A TOXOID
ELANCO ANIMAL HEALTH	296.01201.1	50 DS	CL. PERFRINGENS TYPE A TOXOID
Clostridium Perfringens Types C & D-Tetanus Toxoid			
BOEHRINGER INGELHEIM	090.11050.1	10 DS	BAR VAC® CD/T
BOEHRINGER INGELHEIM	090.11060.1	50 DS	BAR VAC® CD/T
PROFESSIONAL BIOLOGICAL COMPANY	200.00060.1	10 DS	CLOSTRIDIUM PERFRINGENS TYPES C & D-TETANUS TOXOID
PROFESSIONAL BIOLOGICAL COMPANY	200.00062.1	50 DS	CLOSTRIDIUM PERFRINGENS TYPES C & D-TETANUS TOXOID
Clostridium Perfringens Types C & D-Tetani Bacterin-Toxoid			
MERCK ANIMAL HEALTH	349.92600.1	50 DS	VISION® CD-T WITH SPUR®
Clostridium Perfringens Types C & D Toxoid			
BOEHRINGER INGELHEIM	090.00200.1	10 DS	ALPHA-CD™
BOEHRINGER INGELHEIM	090.00100.1	50 DS	ALPHA-CD™
BOEHRINGER INGELHEIM	090.00110.1	250 DS	ALPHA-CD™
BOEHRINGER INGELHEIM	090.11010.1	50 DS	BAR VAC® CD
MERCK ANIMAL HEALTH	349.92000.1	250 DS	VISION® CD WITH SPUR®
ZOETIS, INC.	554.68085.1	10 DS	ULTRABAC® CD
ZOETIS, INC.	554.68090.1	50 DS	ULTRABAC® CD
ZOETIS, INC.	554.68175.1	50 DS	ULTRACHOICE™ CD

Pinkeye Problem? Pinkeye Solution!

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protection with
single dose convenience



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8 different M. bovis isolates
Over 90% efficacy

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Approved for subcutaneous administration

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Extremely low endotoxin levels

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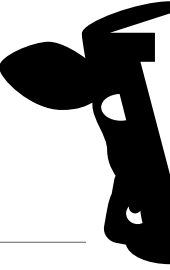
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PINKEYE VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
Moraxella Bovis Bacterin			
ADDISON BIOLOGICAL LABORATORY, INC.	008.00505.1	10 DS	MAXI/GUARD® PINKEYE BACTERIN
ADDISON BIOLOGICAL LABORATORY, INC.	008.00510.1	50 DS	MAXI/GUARD® PINKEYE BACTERIN
BOEHRINGER INGELHEIM	090.60000.1	10 DS	OCU-GUARD® MB-1
BOEHRINGER INGELHEIM	090.60010.1	50 DS	OCU-GUARD® MB-1
ELANCO ANIMAL HEALTH	296.05910.1	10 DS	PINKEYE SHIELD® XT4
ELANCO ANIMAL HEALTH	296.05911.1	50 DS	PINKEYE SHIELD® XT4
HUVEPHARMA, INC.	801.01560.1	10 DS	I-SITE® XP
HUVEPHARMA, INC.	801.01564.1	50 DS	I-SITE® XP
MERCK ANIMAL HEALTH	349.70200.1	10 DS	PILIGUARD® PINKEYE-1 TRIVALENT
MERCK ANIMAL HEALTH	349.70220.1	50 DS	PILIGUARD® PINKEYE-1 TRIVALENT
ZOETIS, INC.	554.62205.1	50 DS	SOLIDBAC® PINKEYE IR/PR
Moraxella Bovoculi Bacterin			
ADDISON BIOLOGICAL LABORATORY, INC.	008.00522.1	10 DS	MORAXELLA BOVOCULI BACTERIN
ADDISON BIOLOGICAL LABORATORY, INC.	008.00520.1	50 DS	MORAXELLA BOVOCULI BACTERIN
HUVEPHARMA, INC.	801.01830.1	10 DS	MORAXELLA BOVOCULI BACTERIN
HUVEPHARMA, INC.	801.01835.1	50 DS	MORAXELLA BOVOCULI BACTERIN
Clostridia 7-way-Moraxella Bovis Bacterin-Toxoid			
BOEHRINGER INGELHEIM	090.00240.1	10 DS	ALPHA-7/MB™-1
BOEHRINGER INGELHEIM	090.00250.1	50 DS	ALPHA-7/MB™-1
MERCK ANIMAL HEALTH	349.70000.1	10 DS	PILIGUARD® PINKEYE + 7
MERCK ANIMAL HEALTH	349.70010.1	50 DS	PILIGUARD® PINKEYE + 7
MERCK ANIMAL HEALTH	349.92200.1	10 DS	20/20 VISION® 7 WITH SPUR®
MERCK ANIMAL HEALTH	349.92220.1	50 DS	20/20 VISION® 7 WITH SPUR®



Elanco

Scour Bos®

Protect Calves and Profits With Scour Bos®

PREG-CHECK. PROTECT.

Talk about convenient. The Scour Bos 9 16-week initial vaccination window gives you the flexibility to administer at preg-check with confidence, something ScourGuard® 4KC and Guardian® can only dream about. Scour Bos 9 features a three-way rotavirus and more antigens and *E. coli* isolates than any other scours vaccine. And it's one of the most economical choices out there. For powerful protection at preg-check, choose **Scour Bos**.



**16-WEEK INITIAL
VACCINATION
WINDOW**



**9
ANTIGENS**

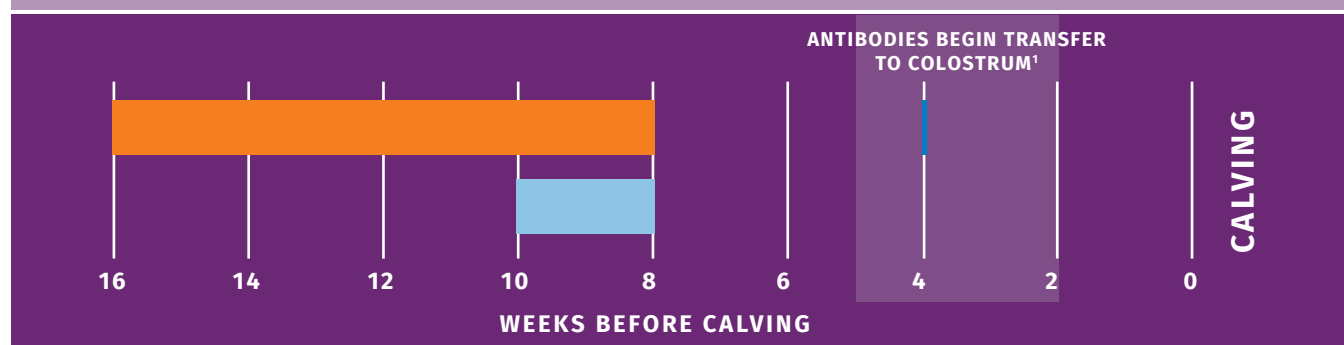


**4 *E. COLI*
ISOLATES**



**3-WAY
ROTAVIRUS**

SCOUR BOS ADMINISTRATION SCHEDULE



**YEAR 1, INITIAL VACCINATION
WITH SCOUR BOS 9**

**YEAR 1, BOOSTER WITH SCOUR
BOS 4 ONLY**

**ANNUAL REVACCINATION WITH
SCOUR BOS 9**

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The label contains complete use information, including cautions and warnings.
Always read, understand and follow the label and use directions.

¹Herr M, Bostedt H, Failing K. IgG and IgM levels in dairy cows during the periparturient period. Theriogenology. 2011;75(2):377-85.

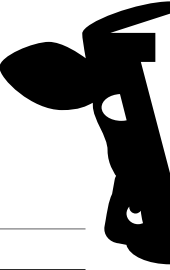
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SCOURS: VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
Clostridium Perfringens Type C-Escherichia Coli Bacterin-Toxoid Bovine Rota-Coronavirus			
ELANCO ANIMAL HEALTH	296.70201.1	10 DS	SCOUR BOS® 9
ELANCO ANIMAL HEALTH	296.70211.1	50 DS	SCOUR BOS® 9
ZOETIS, INC.	554.62090.1	10 DS	SCOURGUARD® 4KC
ZOETIS, INC.	554.62095.1	50 DS	SCOURGUARD® 4KC
Clostridium Perfringens Types C & D-Escherichia Coli Bacterin-Toxoid Bovine Rota-Coronavirus			
MERCK ANIMAL HEALTH	349.34700.1	10 DS	GUARDIAN®
MERCK ANIMAL HEALTH	349.34720.1	50 DS	GUARDIAN®
Clostridium Perfringens Type C-Escherichia Coli Bacterin-Toxoid			
ELANCO ANIMAL HEALTH	296.05891.1	20 DS	BOVINE PILI SHIELD® + C
ELANCO ANIMAL HEALTH	296.05893.1	100 DS	BOVINE PILI SHIELD® + C
Bovine Rota-Coronavirus Escherichia Coli Bacterin			
ZOETIS, INC.	554.62080.1	10 DS	SCOURGUARD® 4K
ZOETIS, INC.	554.62085.1	50 DS	SCOURGUARD® 4K
Bovine Rota-Coronavirus			
ELANCO ANIMAL HEALTH	296.70001.1	10 DS	SCOUR BOS® 4
ELANCO ANIMAL HEALTH	296.70011.1	50 DS	SCOUR BOS® 4
ZOETIS, INC.	554.14030.1	25 X 1 DS	CALF-GUARD®
Bovine Coronavirus			
MERCK ANIMAL HEALTH	349.08955.1	10 DS	BOVILIS® CORONAVIRUS
MERCK ANIMAL HEALTH	349.08957.1	50 DS	BOVILIS® CORONAVIRUS
MERCK ANIMAL HEALTH	349.08959.1	25 X 1 DS	BOVILIS® CORONAVIRUS
Escherichia Coli Bacterin			
ELANCO ANIMAL HEALTH	296.05720.1	20 DS	BOVINE PILI SHIELD®
ELANCO ANIMAL HEALTH	296.05700.1	100 DS	BOVINE PILI SHIELD®
ZOETIS, INC.	554.20030.1	50 DS	ESCHERICHIA COLI BACTERIAL EXTRACT

SCOURS: OTHER

MANUFACTURER	MVS#	SIZE	PRODUCT
Bovine Coronavirus-Escherichia Coli Antibody			
IMMUCELL CORPORATION	338.06000.3	5 X 1 DS	FIRST DEFENSE®
IMMUCELL CORPORATION	338.06010.3	30 X 1 DS	FIRST DEFENSE®
IMMUCELL CORPORATION	338.06015.3	TUB	FIRST DEFENSE® 90 FEEDING TUB
IMMUCELL CORPORATION	338.06025.3	1 DS	DUAL-FORCE™ FIRST DEFENSE®
Bovine Rota-Coronavirus-Escherichia Coli Antibody			
IMMUCELL CORPORATION	338.06035.3	1 DS	FIRST DEFENSE® TRI-SHIELD™

MASTITIS VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
Escherichia Coli			
BOEHRINGER INGELHEIM	465.58000.1	10 DS	J-VAC®
BOEHRINGER INGELHEIM	465.58100.1	50 DS	J-VAC®
BOEHRINGER INGELHEIM	465.58200.1	125 DS	J-VAC®
MERCK ANIMAL HEALTH	349.08950.1	50 DS	BOVILIS® J-5
ZOETIS, INC.	554.20020.1	20 DS	ENVIRACOR™ J-5
ZOETIS, INC.	554.20025.1	50 DS	ENVIRACOR™ J-5



BIOLOGICALS

Mastitis Vaccines | Salmonella Vaccines | Antibodies: Injectable | Antibodies: Oral

MASTITIS VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
Klebsiella			
VAXXINOVA US	801.01715.1	50 DS	VAXXON® SRP® KLEBSIELLA
Salmonella Typhimurium Bacterin-Toxoid			
ENDOVAC ANIMAL HEALTH	339.05100.3	20 DS	ENDOVAC-BEEF® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05105.3	50 DS	ENDOVAC-BEEF® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05110.3	100 DS	ENDOVAC-BEEF® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05115.3	20 DS	ENDOVAC-DAIRY® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05120.3	50 DS	ENDOVAC-DAIRY® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05125.3	100 DS	ENDOVAC-DAIRY® WITH IMMUNEPLUS®
Staphylococcus Aureus Bacterin			
BOEHRINGER INGELHEIM	090.55000.1	10 DS	LYSIGIN®
BOEHRINGER INGELHEIM	090.55010.1	50 DS	LYSIGIN®

SALMONELLA VACCINES

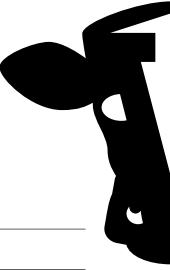
MANUFACTURER	MVS#	SIZE	PRODUCT
Salmonella Dublin Vaccine			
BOEHRINGER INGELHEIM	090.38050.1	10 DS	ENTERVENE™ -d
BOEHRINGER INGELHEIM	090.38060.1	50 DS	ENTERVENE™ -d
Salmonella Dublin-Typhimurium Bacterin			
COLORADO SERUM COMPANY	200.01995.1	20 ML	SALMONELLA DUBLIN-TYPHIMURIUM BACTERIN
COLORADO SERUM COMPANY	200.02000.1	100 ML	SALMONELLA DUBLIN-TYPHIMURIUM BACTERIN
Salmonella Newport			
VAXXINOVA US	801.01715.1	50 DS	VAXXON® SRP® SALMONELLA

ANTIBODIES: INJECTABLE

MANUFACTURER	MVS#	SIZE	PRODUCT
Actinomyces Pyogenes-Escherichia Coli-M. haemolytica-P. multocida-Salmonella Typhimurium Antibody, Bovine Isolates, Bovine Origin			
COLORADO SERUM COMPANY	200.00090.1	250 ML	BOVI-SERA SERUM ANTIBODIES
COLORADO SERUM COMPANY	200.00091.1	1000 ML	BOVI-SERA SERUM ANTIBODIES
Clostridium Perfringens Types C & D Antitoxin			
COLORADO SERUM COMPANY	200.00057.1	50 ML	CLOSTRIDIUM PERFRINGENS TYPES C&D ANTITOXIN, EQUINE ORIGIN
COLORADO SERUM COMPANY	200.00058.1	250 ML	CLOSTRIDIUM PERFRINGENS TYPES C&D ANTITOXIN, EQUINE ORIGIN

ANTIBODIES: ORAL

MANUFACTURER	MVS#	SIZE	PRODUCT
Bovine Coronavirus-Escherichia Coli Antibody			
IMMUCELL CORPORATION	338.06025.3	1 DS	DUAL-FORCE™ FIRST DEFENSE®
IMMUCELL CORPORATION	338.06000.3	5 X 1 DS	FIRST DEFENSE®
IMMUCELL CORPORATION	338.06010.3	30 X 1 DS	FIRST DEFENSE®
IMMUCELL CORPORATION	338.06015.3	TUB	FIRST DEFENSE® 90 FEEDING TUB
Bovine Rota-Coronavirus-Escherichia Coli Antibody			
IMMUCELL CORPORATION	338.06035.3	1 DS	FIRST DEFENSE® TRI-SHIELD™



MISCELLANEOUS VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
Anthrax			
COLORADO SERUM COMPANY	200.00010.1	10 DS	ANTHRAX SPORE VACCINE
COLORADO SERUM COMPANY	200.00015.1	50 DS	ANTHRAX SPORE VACCINE
Brucella Abortus Vaccine Strain RB-51, Live Culture			
PROFESSIONAL BIOLOGICAL COMPANY	200.00028.1	5 DS	BRUCELLA ABORTUS VACCINE (STRAIN RB-51)
PROFESSIONAL BIOLOGICAL COMPANY	200.00029.1	25 DS	BRUCELLA ABORTUS VACCINE (STRAIN RB-51)
Fusobacterium Necrophorum Bacterin			
ELANCO ANIMAL HEALTH	296.10000.1	10 DS	FUSOGARD®
ELANCO ANIMAL HEALTH	296.10010.1	50 DS	FUSOGARD®
ELANCO ANIMAL HEALTH	296.10030.1	250 DS	FUSOGARD®
Wart Vaccine, Killed Virus (Papillomavirus)			
COLORADO SERUM COMPANY	200.00200.1	50 ML	WART VACCINE
COLORADO SERUM COMPANY	200.00202.1	90 ML	WART VACCINE
Salmonella Typhimurium Bacterin-Toxoid			
ENDOVAC ANIMAL HEALTH	339.05100.3	20 DS	ENDOVAC-BEEF® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05105.3	50 DS	ENDOVAC-BEEF® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05110.3	100 DS	ENDOVAC-BEEF® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05115.3	20 DS	ENDOVAC-DAIRY® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05120.3	50 DS	ENDOVAC-DAIRY® WITH IMMUNEPLUS®
ENDOVAC ANIMAL HEALTH	339.05125.3	100 DS	ENDOVAC-DAIRY® WITH IMMUNEPLUS®
Tetanus Antitoxin			
COLORADO SERUM COMPANY	200.00194.1	1 X 15,000 U	TETANUS ANTITOXIN CONCENTRATED/ PURIFIED, EQUINE ORIGIN
COLORADO SERUM COMPANY	200.00206.1	10 X 1500 U	TETANUS ANTITOXIN, EQUINE ORIGIN
COLORADO SERUM COMPANY	200.00205.1	1 X 15,000 U	TETANUS ANTITOXIN, EQUINE ORIGIN
ZOETIS, INC.	275.39905.1	10 X 1500 U	TETANUS ANTITOXIN
Tetanus Toxoid			
PROFESSIONAL BIOLOGICAL COMPANY	200.00197.1	10 DS	TETANUS TOXOID-CONCENTRATED
PROFESSIONAL BIOLOGICAL COMPANY	200.00198.1	10 X 1 DS	TETANUS TOXOID-CONCENTRATED

RABIES VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
BOEHRINGER INGELHEIM	466.47800.1	5 X 10 DS	IMRAB® 3
BOEHRINGER INGELHEIM	465.48001.1	10 DS	IMRAB® LARGE ANIMAL
BOEHRINGER INGELHEIM	465.48000.1	25 DS	IMRAB® LARGE ANIMAL
MERCK ANIMAL HEALTH	349.56620.1	5 X 10 DS	NOBIVAC® 3-RABIES
MERCK ANIMAL HEALTH	349.56640.1	50 X 1 ML	NOBIVAC® 3-RABIES
ZOETIS, INC.	275.06415.1	10 DS	DEFENSOR® 3
ZOETIS, INC.	275.06410.1	50 X 1 ML	DEFENSOR® 3

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Milk Quality Starts with Healthy Animals
and Leads to Increased Production and Profit



the PortaBHB
milk ketone test



the PortaSCC
milk test



BHBCheck Plus
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IgGCheck
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Sub-clinical results ▶ No refrigeration required ▶ Extended shelf life

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When they stand
tall, you stand tall.

You take pride in your commitment to your cattle. But despite all you do, bovine respiratory disease (BRD) can still strike. When it does, we're here to help with the leading antibiotic,¹ a full product portfolio and support services from Zoetis — keeping you and your cattle standing tall. See how at StandUptoBRD.com.



IMPORTANT SAFETY INFORMATION FOR DRAXXIN: DRAXXIN has a pre-slaughter withdrawal time of 18 days in cattle. Do not use in female dairy cattle 20 months of age or older. Do not use in animals known to be hypersensitive to the product. See Brief Summary of Prescribing Information on the next page.

IMPORTANT SAFETY INFORMATION FOR EXCEDE: People with known hypersensitivity to penicillin or cephalosporins should avoid exposure to EXCEDE. EXCEDE is contraindicated in animals with known allergy to ceftiofur or to the β -lactam group (penicillins and cephalosporins) of antimicrobials. Inadvertent intra-arterial injection is possible and fatal. Do not use in calves to be processed for veal. Pre-slaughter withdrawal time is 13 days following the last dose. See Brief Summary of Prescribing Information on the next page.

IMPORTANT SAFETY INFORMATION FOR ADVOCIN: Extra-label use of ADVOCIN in food-producing animals is prohibited. Do not use in cattle intended for dairy production or in calves to be processed for veal. ADVOCIN has a pre-slaughter withdrawal time of four days. See Brief Summary of Prescribing Information on the next page.

¹Animalyx Anti-Infective Therapeutic Category Segment Data Ending MAT Oct. 2020.

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Extended product information on page 57 and 58

When your prevention
plan fails – there's

Norbrook



You need to make the best choices possible for your disease prevention plan. Yet, even the best-run operations can still find themselves at the mercy of disease. Thankfully, Norbrook delivers the veterinary therapeutics you need to target disease, with effective active ingredients in a range of antibiotic classes. So, you're able to choose the disease treatment that works best for you.

Watch for what's next from Norbrook. Contact your veterinarian for details or see our latest line up at Norbrook.com





ANTIBIOTICS: INJECTABLE

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
NORBROOK, INC.	193.00050.3	100 ML	300 PRO LA	Oxytetracycline	300 MG/ML
NORBROOK, INC.	193.00052.3	250 ML	300 PRO LA	Oxytetracycline	300 MG/ML
NORBROOK, INC.	193.00054.3	500 ML	300 PRO LA	Oxytetracycline	300 MG/ML
ZOETIS, INC.	554.09001.3	100 ML	ADVOCIN™	Danofloxacin mesylate	180 MG/ML
ZOETIS, INC.	554.09000.3	250 ML	ADVOCIN™	Danofloxacin mesylate	180 MG/ML
HUVEPHARMA, INC.	801.00255.3	100 ML	AGRIMYCIN® 200	Oxytetracycline Injection	200 MG/ML
HUVEPHARMA, INC.	801.00256.3	250 ML	AGRIMYCIN® 200	Oxytetracycline Injection	200 MG/ML
HUVEPHARMA, INC.	801.00257.3	500 ML	AGRIMYCIN® 200	Oxytetracycline Injection	200 MG/ML
US VET, INC	766.01300.3	25 GM	AMPICILLIN INJ.	Ampicillin	25 GM
ELANCO ANIMAL HEALTH	310.00100.3	100 ML	BAYTRIL® 100	Enrofloxacin	100 MG/ML
ELANCO ANIMAL HEALTH	310.00105.3	250 ML	BAYTRIL® 100	Enrofloxacin	100 MG/ML
ELANCO ANIMAL HEALTH	310.00115.3	500 ML	BAYTRIL® 100	Enrofloxacin	100 MG/ML
ELANCO ANIMAL HEALTH	310.00090.3	250 ML	BAYTRIL® 100 CA-1	Enrofloxacin	100 MG/ML
BOEHRINGER INGELHEIM	090.00700.3	100 ML	BIO-MYCIN® 200	Oxytetracycline	200 MG/ML
BOEHRINGER INGELHEIM	090.00710.3	250 ML	BIO-MYCIN® 200	Oxytetracycline	200 MG/ML
BOEHRINGER INGELHEIM	090.00720.3	500 ML	BIO-MYCIN® 200	Oxytetracycline	200 MG/ML
BOEHRINGER INGELHEIM	090.00800.3	500 ML	BIO-MYCIN® C	Oxytetracycline HCl	100 MG/ML
NORBROOK, INC.	193.00300.3	100 ML	CEFENIL® RTU	Ceftiofur	50 MG/ML
NORBROOK, INC.	193.00301.3	250 ML	CEFENIL® RTU	Ceftiofur	50 MG/ML
MED-PHARMEX, INC.	193.08320.3	1 GM	CEFTIFLEX®	Ceftiofur	50 MG/ML
MED-PHARMEX, INC.	193.08322.3	4 GM	CEFTIFLEX®	Ceftiofur	50 MG/ML
HUVEPHARMA, INC.	801.01130.3	250 ML	DI-METHOX® INJECTION-40%	Sulfadimethoxine 40%	400 MG/ML
ZOETIS, INC.	554.17210.3	50 ML	DRAXXIN® INJECTABLE SOLUTION	Tulathromycin	100MG/ML
ZOETIS, INC.	554.17215.3	100 ML	DRAXXIN® INJECTABLE SOLUTION	Tulathromycin	100MG/ML
ZOETIS, INC.	554.17220.3	250 ML	DRAXXIN® INJECTABLE SOLUTION	Tulathromycin	100MG/ML
ZOETIS, INC.	554.17225.3	500 ML	DRAXXIN® INJECTABLE SOLUTION	Tulathromycin	100MG/ML
ZOETIS, INC.	554.17227.3	100 ML	DRAXXIN® 25 INJECTABLE SOLUTION	Tulathromycin	25MG/ML
ZOETIS, INC.	554.17228.3	250 ML	DRAXXIN® 25 INJECTABLE SOLUTION	Tulathromycin	25MG/ML
NORBROOK, INC.	515.10000.3	100 ML	ENROFLOX™ 100	Enrofloxacin	100 MG/ML
NORBROOK, INC.	515.10005.3	250 ML	ENROFLOX™ 100	Enrofloxacin	100 MG/ML
NORBROOK, INC.	515.10008.3	500 ML	ENROFLOX™ 100	Enrofloxacin	100 MG/ML



ANTIBIOTICS

Antibiotics: Injectable

ANTIBIOTICS: INJECTABLE

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
ZOETIS, INC.	554.20160.3	100 ML	EXCEDE® STERILE SUSPENSION	Ceftiofur	200 MG/ML
ZOETIS, INC.	554.20162.3	250 ML	EXCEDE® STERILE SUSPENSION	Ceftiofur	200 MG/ML
ZOETIS, INC.	554.20180.3	100 ML	EXCENEL® RTU EZ SUSPENSION	Ceftiofur	50 MG/ML
ZOETIS, INC.	554.20181.3	250 ML	EXCENEL® RTU EZ SUSPENSION	Ceftiofur	50 MG/ML
ZOETIS, INC.	554.41020.3	100 ML	LIQUAMYCIN® LA-200®	Oxytetracycline	200 MG/ML
ZOETIS, INC.	554.41025.3	250 ML	LIQUAMYCIN® LA-200®	Oxytetracycline	200 MG/ML
ZOETIS, INC.	554.41030.3	500 ML	LIQUAMYCIN® LA-200®	Oxytetracycline	200 MG/ML
ELANCO ANIMAL HEALTH	406.70020.3	250 ML	MICOTIL® 300 INJECTION	Tilmicosin	300 MG/ML
ZOETIS, INC.	555.15000.3	1 GM	NAXCEL®	Ceftiofur	50 MG/ML
ZOETIS, INC.	555.15010.3	4 GM	NAXCEL®	Ceftiofur	50 MG/ML
NORBROOK, INC.	515.57000.3	100 ML	NORFENICOL®	Florfenicol	300 MG/ML
NORBROOK, INC.	515.57002.3	250 ML	NORFENICOL®	Florfenicol	300 MG/ML
NORBROOK, INC.	515.57004.3	500 ML	NORFENICOL®	Florfenicol	300 MG/ML
NORBROOK, INC.	562.57200.3	100 ML	NOROCILLIN	Penicillin G procaine	300,000 UNITS/ML
NORBROOK, INC.	562.57205.3	250 ML	NOROCILLIN	Penicillin G procaine	300,000 UNITS/ML
NORBROOK, INC.	193.55390.3	100 ML	NOROMYCIN 300 LA	Oxytetracycline	300 MG/ML
NORBROOK, INC.	193.55392.3	250 ML	NOROMYCIN 300 LA	Oxytetracycline	300 MG/ML
NORBROOK, INC.	193.55394.3	500 ML	NOROMYCIN 300 LA	Oxytetracycline	300 MG/ML
MERCK ANIMAL HEALTH	349.57000.3	100 ML	NUFLOR® INJECTABLE	Florfenicol	300 MG/ML
MERCK ANIMAL HEALTH	349.57020.3	250 ML	NUFLOR® INJECTABLE	Florfenicol	300 MG/ML
MERCK ANIMAL HEALTH	349.57040.3	500 ML	NUFLOR® INJECTABLE	Florfenicol	300 MG/ML
NORBROOK, INC.	193.59652.3	500 ML	OXYTETRACYCLINE INJECTION 200	Oxytetracycline	200 MG/ML
BIMEDA, INC.	193.62652.3	100 ML	PRO-PEN-G® INJECTION	Penicillin G procaine	300,000 UNITS/ML
BIMEDA, INC.	193.62653.3	250 ML	PRO-PEN-G® INJECTION	Penicillin G procaine	300,000 UNITS/ML
BIMEDA, INC.	193.62654.3	500 ML	PRO-PEN-G® INJECTION	Penicillin G procaine	300,000 UNITS/ML
BOEHRINGER INGELHEIM	090.62020.3	25 GM	POLYFLEX®	Ampicillin	25 GM
MERCK ANIMAL HEALTH	349.75900.3	100 ML	RESFLOR GOLD®	Florfenicol and Flunixin meglumine	300 MG/ML FLORFEN & 16.5 MG/ML FLUNIX
MERCK ANIMAL HEALTH	349.75920.3	250 ML	RESFLOR GOLD®	Florfenicol and Flunixin meglumine	300 MG/ML FLORFEN & 16.5 MG/ML FLUNIX
MERCK ANIMAL HEALTH	349.75940.3	500 ML	RESFLOR GOLD®	Florfenicol and Flunixin meglumine	300 MG/ML FLORFEN & 16.5 MG/ML FLUNIX
PHOENIX	193.74052.3	250 ML	SODIUM IODIDE 20% INJECTION	Sodium Iodide	20 GM

Category Continues >>

SAY BYE TO THAT.

BUT YOU DON'T HAVE TO
SAY BYE TO PRODUCTIVITY.*

The minute your cows go in the sick pen, you start losing time and money. Treating metritis with EXCEDE® means no lost productivity due to days in the sick pen or discarded milk.

Learn more at excede.com.

EXCEDE
(Ceftiofur Crystalline-Free Acid)
Sterile Suspension

IMPORTANT SAFETY INFORMATION: People with known hypersensitivity to penicillin or cephalosporins should avoid exposure to EXCEDE. EXCEDE is contraindicated in animals with known allergy to ceftiofur or to the β -lactam group (penicillins and cephalosporins) of antimicrobials. Inadvertent intra-arterial injection is possible and fatal. Do not use in calves to be processed for veal. Pre-slaughter withdrawal time is 13 days following the last dose. See brief summary of Prescribing Information on the following page.

*Productivity defined as the human labor of moving cows to and from the sick pen and money lost on discarded milk.

DAIRY WELLNESS MAKES A DIFFERENCE™

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zoetis

Extended product information on page 58

READY. SET. ZUPREVO®

(tildipirosin)

When you spot bovine respiratory disease (BRD), reach for the fast that lasts.

Reaching **peak plasma levels in 45 minutes**, ZUPREVO gets to work rapidly. Its unique chemical structure results in swift accumulation in the lungs and keeps working **for 28 days** in lung tissue.¹

With ZUPREVO, you can give clients the therapy they need to win the race against BRD. Fast-acting, long-lasting solutions are another way Merck Animal Health Works for you and your clients.

See the full prescribing information at Zuprevo.com.



¹Menge M, et al., Pharmacokinetics of tildipirosin in bovine plasma, lung tissue, and bronchial fluid (from live, non-anesthetized cattle). *J Vet Pharmacol Ther.* 2012;35(6):550-559. The correlation between pharmacokinetic data and clinical relevance is unknown.

IMPORTANT SAFETY INFORMATION: FOR USE IN ANIMALS ONLY. NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN. TO AVOID ACCIDENTAL INJECTION, DO NOT USE IN AUTOMATICALLY POWERED SYRINGES WHICH HAVE NO ADDITIONAL PROTECTION SYSTEM. IN CASE OF HUMAN INJECTION, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THE PACKAGE INSERT OR LABEL TO THE PHYSICIAN. RESIDUE WARNING: Cattle intended for human consumption must not be slaughtered within 21 days of the last treatment. Do not use in female dairy cattle 20 months of age or older. Use of this drug product in these cattle may cause milk residue. A withdrawal period has not been established in pre-ruminating calves. Do not use in calves to be processed for veal. The effects of Zuprevo® 18% on bovine reproductive performance, pregnancy and lactation have not been determined. Swelling and inflammation, which may be severe, may be seen at the injection site after administration. Subcutaneous injection may result in local tissue reactions which persist beyond slaughter withdrawal period. This may result in trim loss of edible tissue at slaughter. **DO NOT USE ZUPREVO® 18% IN SWINE. FATAL ADVERSE EVENTS HAVE BEEN REPORTED FOLLOWING THE USE OF TILDIPIROSIN IN SWINE. NOT FOR USE IN CHICKENS OR TURKEYS.**



ANTIBIOTICS: INJECTABLE

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
BIMEDA, INC.	193.75006.3	250 ML	SULFAMED™ INJECTION 40%	Sulfadimethoxine	400 MG/ML
ELANCO ANIMAL HEALTH	406.90015.3	250 ML	TYLAN® 200 INJECTION	Tylosin	200 MG/ML
ELANCO ANIMAL HEALTH	406.90020.3	500 ML	TYLAN® 200 INJECTION	Tylosin	200 MG/ML
ELANCO ANIMAL HEALTH	406.90025.3	100 ML	TYLAN® 50 INJECTION	Tylosin	50 MG/ML
BOEHRINGER INGELHEIM	465.89000.3	100 ML	ZACTRAN®	Gamithromycin	150 MG/ML
BOEHRINGER INGELHEIM	465.89010.3	250 ML	ZACTRAN®	Gamithromycin	150 MG/ML
BOEHRINGER INGELHEIM	465.89020.3	500 ML	ZACTRAN®	Gamithromycin	150 MG/ML
MERCK ANIMAL HEALTH	349.95500.3	100 ML	ZUPREVO™ 18%	Tildipirosin	180 MG/ML
MERCK ANIMAL HEALTH	349.95520.3	250 ML	ZUPREVO™ 18%	Tildipirosin	180 MG/ML





ANTIBIOTICS

Bolus | Soluble Powder | Solutions

BOLUS

MANUFACTURER	MVS#	SIZE	STRENGTH	PRODUCT	ACTIVE INGREDIENTS
ZOETIS, INC.	554.08055.3	50 CT	5 GM	ALBON® BOLUSES	Sulfadimethoxine
ZOETIS, INC.	554.08050.3	12 CT	15 GM	ALBON® BOLUSES	Sulfadimethoxine
ZOETIS, INC.	554.08060.3	50 CT	15 GM	ALBON® BOLUSES	Sulfadimethoxine
BOEHRINGER INGELHEIM	090.61000.3	25 CT	500 MG	OXY 500 CALF BOLUS	Oxytetracycline HCl
BOEHRINGER INGELHEIM	090.61010.3	100 CT	500 MG	OXY 500 CALF BOLUS	Oxytetracycline HCl
BIMEDA, INC.	193.75440.3	50 CT	8.02 GM	SUSTAIN III® CALF BOLUS	Sulfamethazine
BIMEDA, INC.	193.75442.3	50 CT	32.1 GM	SUSTAIN III® CATTLE BOLUS	Sulfamethazine
BIMEDA, INC.	193.75444.3	100 CT	32.1 GM	SUSTAIN III® CATTLE BOLUS	Sulfamethazine

SOLUBLE POWDER

MANUFACTURER	MVS#	SIZE	STRENGTH	PRODUCT	ACTIVE INGREDIENTS
BIMEDA, INC.	193.52940.3	100 GM	71.4 GM	NEOMED® 325 SOLUBLE POWDER	Neomycin Sulfate (commercial grade)
BIMEDA, INC.	193.52942.3	200 GM	142.8 GM	NEOMED® 325 SOLUBLE POWDER	Neomycin Sulfate (commercial grade)
BIMEDA, INC.	193.73550.3	453.3 GM	453.3 GM	SMZ-MED™ 454	Sodium Sulfamethazine
BIMEDA, INC.	193.75002.3	535 GM	473 GM	SULFAMED-G®	Sulfadimethoxine
HUVEPHARMA, INC.	801.15140.3	5 LB	324 GM/LB	TETRA BAC 324	Tetracycline Hydrochloride
BIMEDA, INC.	193.77400.3	2 LB	324 GM/LB	TETRAMED® 324 HCA	Tetracycline Hydrochloride
BIMEDA, INC.	193.77405.3	5 LB	324 GM/LB	TETRAMED® 324 HCA	Tetracycline Hydrochloride
BIMEDA, INC.	193.77410.3	25 LB	324 GM/LB	TETRAMED® 324 HCA	Tetracycline Hydrochloride

SOLUTIONS

MANUFACTURER	MVS#	SIZE	STRENGTH	PRODUCT	ACTIVE INGREDIENTS
HUVEPHARMA, INC.	801.01136.3	GAL	12.5%	DI-METHOX® 12.5% ORAL SOLUTION	Sulfadimethoxine
SPARHAWK LABORATORIES, INC.	193.01910.3	16 OZ	200 MG/ML	NEOMYCIN ORAL SOLUTION	Neomycin Sulfate
SPARHAWK LABORATORIES, INC.	193.01915.3	GAL	200 MG/ML	NEOMYCIN ORAL SOLUTION	Neomycin Sulfate

NEWS FLASH!

SUSTAIN CALF IS BACK!

SUSTAIN III[®] CALF BOLUS (sulfamethazine)



Within 6 hours Sustain III[®] Calf Boluses go to work and provide up to 72 hours of therapeutic sulfamethazine to combat bacterial pneumonia, bacterial scours and calf diphtheria in ruminating calves one month of age and older.

- ✓ Less Handling
- ✓ Fast Acting
- ✓ Effective

AVAILABLE IN TWO SIZES:

LIST No	UNIT PACKAGE	CASE SIZE
1SUS032	25 ct	12
1SUS033	50 ct	6



For more information, visit BimedaUS.com



Season-Long Lice Control Ahead

StandGuard® Pour-on insecticide contains gamma-cyhalothrin, to deliver season-long control of lice with a single application on beef cattle and calves.¹



NEOGEN.COM • 800.621.8829 (USA/Canada) • 859.254.1221

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¹NEOGEN. Data on file.



PARASITICIDES

Anthelmintics | Endectocides: Injectable

ANTHELMINTICS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	MEAT W/D
MERCK ANIMAL HEALTH	349.65600.3	1000 ML	PANACUR® HORSE & CATTLE DEWORMER SUSPENSION 10%	Fenbendazole 100MG/ML	8 days
MERCK ANIMAL HEALTH	349.65620.3	Gallon	PANACUR® BEEF & DAIRY CATTLE DEWORMER SUSPENSION 10%	Fenbendazole 100MG/ML	8 days
HUVEPHARMA, INC.	801.05700.3	52 GM	PROHIBIT® SOLUBLE DRENCH POWDER	Levamisole Hydrochloride 46.8 GM/PKT	4 days
HUVEPHARMA, INC.	801.05701.3	605 GM	PROHIBIT® SOLUBLE DRENCH POWDER	Levamisole Hydrochloride 46.8 GM/PKT	4 days
HUVEPHARMA, INC.	801.05705.3	15 X 52 GM	PROHIBIT® SOLUBLE DRENCH POWDER	Levamisole Hydrochloride 46.8 GM/PKT	4 days
MERCK ANIMAL HEALTH	349.78000.3	290 GM	SAFE-GUARD® BEEF AND DAIRY CATTLE DEWORMER	Fenbendazole 100 MG/GM	8 days
MERCK ANIMAL HEALTH	349.78410.3	1000 ML	SAFE-GUARD® DEWORMER FOR BEEF & DAIRY CATTLE AND GOATS SUSPENSION 10%	Fenbendazole 100MG/ML	8 days
MERCK ANIMAL HEALTH	349.78420.3	Gallon	SAFE-GUARD® DEWORMER FOR BEEF & DAIRY CATTLE AND GOATS SUSPENSION 10%	Fenbendazole 100MG/ML	8 days
MERCK ANIMAL HEALTH	349.78425.3	10 Liter	SAFE-GUARD® DEWORMER FOR BEEF & DAIRY CATTLE AND GOATS SUSPENSION 10%	Fenbendazole 100MG/ML	8 days
MERCK ANIMAL HEALTH	349.78320.3	92 GM	SAFE-GUARD® HORSE & CATTLE DEWORMER PASTE 10%	Fenbendazole 100 MG/GM	8 days
MERCK ANIMAL HEALTH	349.80530.3	10 LB	SAFE-GUARD® MEDICATED DEWORMER FOR BEEF & DAIRY CATTLE, & SWINE (0.5% TOP DRESS PELLETS 10 LBS)	Fenbendazole .5%	13 days
BOEHRINGER INGELHEIM	090.71060.3	500 ML	SYNANTHIC® BOVINE DEWORMER SUSPENSION, 22.5%	Oxfendazole 225 MG/ML	7 days
BOEHRINGER INGELHEIM	090.71050.3	1 Liter	SYNANTHIC® BOVINE DEWORMER SUSPENSION, 22.5%	Oxfendazole 225 MG/ML	7 days
BOEHRINGER INGELHEIM	090.71070.3	1 Liter	SYNANTHIC® BOVINE DEWORMER SUSPENSION, 9.06%	Oxfendazole 90.6 MG/ML	7 days
BOEHRINGER INGELHEIM	090.71080.3	4 Liter	SYNANTHIC® BOVINE DEWORMER SUSPENSION, 9.06%	Oxfendazole 90.6 MG/ML	7 days
ZOETIS, INC	554.71050.3	500 ML	VALBAZEN® SUSPENSION	Albendazole 113.6 MG/ML	27 days
ZOETIS, INC	554.71060.3	1 Liter	VALBAZEN® SUSPENSION	Albendazole 113.6 MG/ML	27 days
ZOETIS, INC	554.71055.3	5 Liter	VALBAZEN® SUSPENSION	Albendazole 113.6 MG/ML	27 days

ENDECTOCIDES: INJECTABLE

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	MEAT W/D
HUVEPHARMA, INC.	801.00235.3	50 ML	AGRI-MECTIN® INJECTION	Ivermectin 1 % 10 MG/ML	35 days
HUVEPHARMA, INC.	801.00236.3	200 ML	AGRI-MECTIN® INJECTION	Ivermectin 1 % 10 MG/ML	35 days
HUVEPHARMA, INC.	801.00237.3	500 ML	AGRI-MECTIN® INJECTION	Ivermectin 1 % 10 MG/ML	35 days
ELANCO ANIMAL HEALTH	090.23730.3	500 ML	CYDECTIN® INJECTABLE SOLUTION	Moxidectin 1 % 10 MG/ML	21 days

Category Continues >>



PARASITICIDES

Endectocides: Injectable

ENDECTOCIDES: INJECTABLE

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	MEAT W/D
ZOETIS, INC.	554.17110.3	100 ML	DECTOMAX® INJECTABLE SOLUTION	Doramectin 1% 10 MG/ML	35 days
ZOETIS, INC.	554.17100.3	200 ML	DECTOMAX® INJECTABLE SOLUTION	Doramectin 1% 10 MG/ML	35 days
ZOETIS, INC.	554.17105.3	500 ML	DECTOMAX® INJECTABLE SOLUTION	Doramectin 1% 10 MG/ML	35 days
BOEHRINGER INGELHEIM	465.53000.3	50 ML	IVOMEC® 1% INJECTION	Ivermectin 1% 10 MG/ML	35 days
BOEHRINGER INGELHEIM	465.53100.3	200 ML	IVOMEC® 1% INJECTION	Ivermectin 1% 10 MG/ML	35 days
BOEHRINGER INGELHEIM	465.53200.3	500 ML	IVOMEC® 1% INJECTION	Ivermectin 1% 10 MG/ML	35 days
BOEHRINGER INGELHEIM	465.53300.3	1000 ML	IVOMEC® 1% INJECTION	Ivermectin 1% 10 MG/ML	35 days
BOEHRINGER INGELHEIM	465.54000.3	50 ML	IVOMEC® PLUS INJECTION	Ivermectin 1% 10 MG/ML, Clorsulon 10% 100 MG/ML	21 days
BOEHRINGER INGELHEIM	465.54100.3	200 ML	IVOMEC® PLUS INJECTION	Ivermectin 1% 10 MG/ML, Clorsulon 10% 100 MG/ML	21 days
BOEHRINGER INGELHEIM	465.54200.3	500 ML	IVOMEC® PLUS INJECTION	Ivermectin 1% 10 MG/ML, Clorsulon 10% 100 MG/ML	21 days
BOEHRINGER INGELHEIM	465.54300.3	1000 ML	IVOMEC® PLUS INJECTION	Ivermectin 1% 10 MG/ML, Clorsulon 10% 100 MG/ML	21 days
BOEHRINGER INGELHEIM	465.50290.3	100 ML	LONGRANGE™ EXTENDED- RELEASE INJ.	Eprinomectin 50 MG/ML	48 days
BOEHRINGER INGELHEIM	465.50305.3	250 ML	LONGRANGE™ EXTENDED- RELEASE INJ.	Eprinomectin 50 MG/ML	48 days
BOEHRINGER INGELHEIM	465.50310.3	500 ML	LONGRANGE™ EXTENDED- RELEASE INJ.	Eprinomectin 50 MG/ML	48 days
NORBROOK, INC.	801.01940.3	50 ML	NOROMECTIN® INJECTION	Ivermectin 1% 10 MG/ML	35 days
NORBROOK, INC.	801.01942.3	250 ML	NOROMECTIN® INJECTION	Ivermectin 1% 10 MG/ML	35 days
NORBROOK, INC.	193.55376.3	500 ML	NOROMECTIN® INJECTION	Ivermectin 1% 10 MG/ML	35 days
NORBROOK, INC.	193.55376.3	1000 ML	NOROMECTIN® INJECTION	Ivermectin 1% 10 MG/ML	35 days
NORBROOK, INC.	801.19456.3	50 ML	NOROMECTIN® PLUS INJECTION	Ivermectin 1% 10 MG/ML, Clorsulon 10% 100 MG/ML	21 days
NORBROOK, INC.	801.19457.3	250 ML	NOROMECTIN® PLUS INJECTION	Ivermectin 1% 10 MG/ML, Clorsulon 10% 100 MG/ML	21 days
NORBROOK, INC.	801.19458.3	500 ML	NOROMECTIN® PLUS INJECTION	Ivermectin 1% 10 MG/ML, Clorsulon 10% 100 MG/ML	21 days
NORBROOK, INC.	801.19459.3	1000 ML	NOROMECTIN® PLUS INJECTION	Ivermectin 1% 10 MG/ML, Clorsulon 10% 100 MG/ML	21 days

**WITH JUST ONE DOSE, LONGRANGE® (EPRINOMECTIN)
WORKS UP TO 5X LONGER.¹**

By delivering up to 150 days of parasite control with just one dose², LongRange® (eprinomectin) offers the best economic return of any dewormer on the market. The season-long protection provided by Theraphase® technology means longer protection from nutrient-robbing parasites — and your producers will see the difference at the scale.

25.4¹

**MORE POUNDS THAN
Dectomax® (doramectin).³**

Visit theLONGRANGElook.com to learn more.



**MAKE
HEAVIER⁴
CATTLE
YOUR CALLING CARD.**

LONGRANGE IMPORTANT SAFETY INFORMATION: Do not treat within 48 days of slaughter. Not for use in female dairy cattle 20 months of age or older, including dry dairy cows, or in veal calves. Post-injection site damage (e.g., granulomas, necrosis) can occur. These reactions have disappeared without treatment. 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.

¹ Results based on actual on-farm comparative demonstration. Individual herd results may vary. Data on file at Boehringer Ingelheim.

² Dependent upon parasite species, as referenced in FOI summary and LONGRANGE product label.

³ DECTOMAX product label.

⁴ Rademacher RD, Behlke EJ, Par SL. An evaluation of eprinomectin extended-release injectable (LongRange®) on the performance of yearling cattle on pasture in western Canada. *Bov Pract* 2018;52(1):46–52.

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Extended product information on page 56



Available in 500 mL, 250 mL and 100 mL bottles.
Administer subcutaneously at 1 mL/110 lbs.

Cattle First.



When it comes to treating BRD—

HOOK IT UP

Handy and convenient — and with the same active ingredient as the name brand.

Norbrook Norfenicol® is a first-choice, broad-spectrum antibiotic for control and treatment of BRD. Packaged with a unique hanger bottle, just hook it up on the chute and move cattle through to deliver benefits over Nuflor®, like:

- Less viscous and more syringeable
- Unbreakable plastic bottles
- Shorter Sub-Q withdrawal prior to slaughter

**Contact your veterinarian or visit
NORBROOK.COM**



www.norbrook.com

Observe label direction and withdrawal times. Federal law restricts this drug to use by or on the order of a licensed veterinarian. For use in beef and non-lactating dairy cattle only. Not approved for use in female dairy cattle 20 months of age or older, including dry dairy cows. Animals intended for human consumption must not be slaughtered within 28 days of the last intramuscular treatment or within 33 days of subcutaneous treatment. Do not use in calves to be processed for veal. Intramuscular injection may result in local tissue reaction which may result in trim loss at slaughter. See product labeling for full product information, including adverse reactions. The Norbrook logos are registered trademarks of Norbrook Laboratories Limited. Norfenicol is a registered trademark of Norbrook Laboratories Limited. Nuflor is a registered trademark of Merck Animal Health. 1020-591-101B

Extended product information on page 57





ENDECTOCIDES: POUR ON

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	MEAT W/D
BIMEDA, INC.	193.05371.3	1 Liter	BIMECTIN® POUR-ON	Ivermectin 5 MG/ML	48 days
BIMEDA, INC.	193.05372.3	2 X 5 Liter	BIMECTIN® POUR-ON	Ivermectin 5 MG/ML	48 days
BIMEDA, INC.	193.05373.3	20 Liter	BIMECTIN® POUR-ON	Ivermectin 5 MG/ML	48 days
ELANCO ANIMAL HEALTH	090.23770.3	500 ML	CYDECTIN® POUR-ON	Moxidectin 5 MG/ML	0 days
ELANCO ANIMAL HEALTH	090.23750.3	1 Liter	CYDECTIN® POUR-ON	Moxidectin 5 MG/ML	0 days
ELANCO ANIMAL HEALTH	090.23760.3	2.5 Liter	CYDECTIN® POUR-ON	Moxidectin 5 MG/ML	0 days
ELANCO ANIMAL HEALTH	090.23780.3	5 Liter	CYDECTIN® POUR-ON	Moxidectin 5 MG/ML	0 days
ELANCO ANIMAL HEALTH	090.23740.3	10 Liter	CYDECTIN® POUR-ON	Moxidectin 5 MG/ML	0 days
ZOETIS, INC	554.17125.3	1 Liter	DECTOMAX® POUR-ON	Doramectin .5% 5 MG/ML	45 days
ZOETIS, INC	554.17130.3	4 X 2.5 Liter	DECTOMAX® POUR-ON	Doramectin .5% 5 MG/ML	45 days
ZOETIS, INC	554.17135.3	2 X 5 Liter	DECTOMAX® POUR-ON	Doramectin .5% 5 MG/ML	45 days
NORBROOK, INC.	193.05405.3	1 Liter	EPRIZERO®	Eprinomectin 5 MG/ML	0 days
NORBROOK, INC.	193.99990.3	2.5 Liter	EPRIZERO®	Eprinomectin 5 MG/ML	0 days
NORBROOK, INC.	193.99992.3	5 Liter	EPRIZERO®	Eprinomectin 5 MG/ML	0 days
NORBROOK, INC.	193.91991.3	20 Liter	EPRIZERO®	Eprinomectin 5 MG/ML	0 days
BOEHRINGER INGELHEIM	465.51000.3	250 ML	IVOMEC® EPRINEX® POUR-ON	Eprinomectin 5 MG/ML	0 days
BOEHRINGER INGELHEIM	465.51100.3	1 Liter	IVOMEC® EPRINEX® POUR-ON	Eprinomectin 5 MG/ML	0 days
BOEHRINGER INGELHEIM	465.51200.3	2.5 Liter	IVOMEC® EPRINEX® POUR-ON	Eprinomectin 5 MG/ML	0 days
BOEHRINGER INGELHEIM	465.51300.3	5 Liter	IVOMEC® EPRINEX® POUR-ON	Eprinomectin 5 MG/ML	0 days
BOEHRINGER INGELHEIM	465.51350.3	10 Liter	IVOMEC® EPRINEX® POUR-ON	Eprinomectin 5 MG/ML	0 days
BOEHRINGER INGELHEIM	465.51400.3	20 Liter	IVOMEC® EPRINEX® POUR-ON	Eprinomectin 5 MG/ML	0 days
BOEHRINGER INGELHEIM	465.55000.3	250 ML	IVOMEC® POUR-ON	Ivermectin 5 MG/ML	48 days
BOEHRINGER INGELHEIM	465.55100.3	1 Liter	IVOMEC® POUR-ON	Ivermectin 5 MG/ML	48 days
BOEHRINGER INGELHEIM	465.55205.3	4 X 2.5 Liter	IVOMEC® POUR-ON	Ivermectin 5 MG/ML	48 days
BOEHRINGER INGELHEIM	465.55305.3	2 X 5 Liter	IVOMEC® POUR-ON	Ivermectin 5 MG/ML	48 days
BOEHRINGER INGELHEIM	465.55400.3	20 Liter	IVOMEC® POUR-ON	Ivermectin 5 MG/ML	48 days
VEDCO	562.05372.3	2 X 5 Liter	PROMECTIN® B POUR-ON	Ivermectin 5 MG/ML	48 days

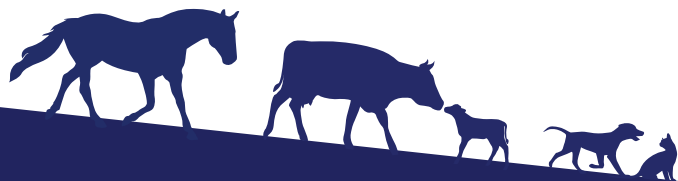
The logo for US VET, with 'US' in red and 'VET' in white on a dark blue background.

VETERINARY PRODUCTS

UNITED IN CARE

PRODUCT NAME	CURRENT NDC #	NEW US VET NDC # FOR Q1 2021	VOLUME	PACK SIZE
Ampicillin for Injectable Suspension (ampicillin trihydrate)	86108-946-01	—	25-g vial	1 bottle
Ampicillin Sodium (For Horses Only)	86108-335-01	—	1-g vial	Ten 1-g vials
go-dry™	10515-012-10	86108-012-10	10-mL syringe	Twelve 10-mL syringes
MASTI-CLEAR®	10515-014-10	86108-014-10	10-mL syringe	Twelve 10-mL syringes
Quartermaster® Suspension (Carton)	44567-901-03	86108-901-03	10-mL syringe	Twelve 10-mL syringes
Quartermaster® Suspension (Pail)	44567-901-05	86108-901-05	10-mL syringe	144 10-mL syringes

For additional details, talk with your US VET distribution representative, call 1-833-551-0306, or visit our full product information at usvet.com.



UNITED IN CARE | Visit us at usvet.com





MASTITIS IS NOT WELCOME HERE.

**In the fight against mastitis,
trust the time-tested protection
of Quartermaster Suspension.**

A tradition that keeps going strong,
Quartermaster Suspension has been depended
on to manage and prevent mastitis for over 40 years.
That's why US VET is proud to offer this product
as an indispensable tool for veterinarians and
producers, alike.

For more information on
Quartermaster Suspension,
call 1-833-551-0306 or visit
our website at usvet.com.

**40
YEARS**



Don't just treat mastitis. MASTER IT.



DESCRIPTION:

Each 10-mL disposable syringe contains 1,000,000 units of procaine penicillin G, micronized, and 1 gram of dihydrostreptomycin base, as dihydrostreptomycin sulfate, in an extended action base consisting of 1% w/v hydrogenated peanut oil, 3% w/v aluminum monostearate, and peanut oil, q.s. Manufactured by a non-sterilizing process.

INDICATIONS:

For intramammary use to reduce the frequency of existing infection and to prevent new infections with *Staphylococcus aureus* in dry cows.

WARNINGS:

For udder instillation upon drying off only. Not to be used within six (6) weeks of freshening. Not for use in lactating cows. Milk taken from animals within 96 hours (8 milkings) after calving must not be used for food. Animals infused with this product must not be slaughtered for food within 60 days from time of infusion nor within 96 hours after calving.

CAUTION:

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

STORAGE CONDITIONS:

Store at controlled room temperature 20° to 25°C (68° to 77°F). Store under dry conditions.

HOW SUPPLIED:

Quartermaster Suspension is supplied as:
Packers of 12–10 mL (.33 Fl Oz) disposable syringes with 12 convenient single-use isopropyl alcohol pads.....NDC 86108-901-03

Pails of 144–10 mL (.33 Fl Oz) disposable syringes with 144 convenient single-use isopropyl alcohol pads.....NDC 86108-901-05

ATTENTION DOCTOR:

It is your responsibility to inform your client of the warnings stated above so as to avoid adulteration of meat or milk and possible prosecution under Federal law.

US VET Inc.
Hamilton, NY 13346

Quartermaster is a trademark of West Agro, Inc.



**DRY COW: MASTITIS TUBES**

MANUFACTURER	PRODUCT	MVS#	SIZE
BOEHRINGER INGELHEIM	DRY-CLOX®	090.28000.3	12 X 10ML
BOEHRINGER INGELHEIM	DRY-CLOX®	090.28005.3	144 X 10ml
BOEHRINGER INGELHEIM	LOCKOUT™	465.50105.3	144 X 10ml
BOEHRINGER INGELHEIM	ToMORROW®	090.54110.3	12 X 10ml
BOEHRINGER INGELHEIM	ToMORROW®	090.54115.3	144 X 10ml
JUROY PTY, LTD.	U-SEAL™	562.75005.2	144 X 10ml
JUROY PTY, LTD.	U-SEAL™	562.75004.2	24 X 10ML
MERCK ANIMAL HEALTH	ORBENIN-DC®	349.60800.3	12 X 7.5GM
MERCK ANIMAL HEALTH	SHUTOUT™	349.80600.3	24 X 10ml
MERCK ANIMAL HEALTH	SHUTOUT™	349.80605.3	144 X 10ml
US VET INC.	GO-DRY™	766.01412.3	12 X 10ml
US VET INC.	QUARTERMASTER®	766.10103.3	12 X 10ml
US VET INC.	QUARTERMASTER®	766.10105.3	144 X 10ml
ZOETIS, INC.	ALBADRY PLUS®	554.08030.3	12 X 10ml
ZOETIS, INC.	ALBADRY PLUS®	554.08035.3	144 X 10ml
ZOETIS, INC.	ORBESEAL® (non antibiotic teat sealant)	554.50155.3	144 X 10ml
ZOETIS, INC.	SPECTRAMAST® DC	554.62230.3	12 X 10ml
ZOETIS, INC.	SPECTRAMAST® DC	554.62235.3	144 X 10ml

LACTATING COW: MASTITIS TUBES

MANUFACTURER	PRODUCT	MVS#	SIZE
BOEHRINGER INGELHEIM	POLYMAST®	090.62030.3	12 X 10ml
BOEHRINGER INGELHEIM	POLYMAST®	090.62035.3	144 X 10ml
BOEHRINGER INGELHEIM	ToDAY®	090.54100.3	12 X 10ml
BOEHRINGER INGELHEIM	ToDAY®	090.54105.3	144 X 10ml
MERCK ANIMAL HEALTH	AMOXI-MAST®	349.01000.3	12 X 10ml
MERCK ANIMAL HEALTH	DARI-CLOX®	349.12080.3	12 X 10ml
US VET INC.	MASTI-CLEAR®	766.01410.3	12 X 10ml
ZOETIS, INC.	PIRSUE® STERILE SOLUTION	554.53030.3	12 X 10ml
ZOETIS, INC.	PIRSUE® STERILE SOLUTION	554.53035.3	144 X 10ml
ZOETIS, INC.	SPECTRAMAST® LC	554.62240.3	12 X 10ml
ZOETIS, INC.	SPECTRAMAST® LC	554.62245.3	144 X 10ml

MASTITIS TREATMENTS

Dry Cow: Mastitis Tubes | Lactating Cow: Mastitis Tubes



ACTIVE INGREDIENT(S)	INDICATIONS	MEAT W/D	MILK W/H	DRY PERIOD
Cloxacillin benzathine	Treatment of mastitis	30 days	0 hours	30 days
Cloxacillin benzathine	Treatment of mastitis	30 days	0 hours	30 days
Bismuth subnitrate	Aids in prevention of new infections	0 days	0 hours	none
Cephapirin benzathine	Treatment of mastitis	42 days	72 hours	30 days
Cephapirin benzathine	Treatment of mastitis	42 days	72 hours	30 days
Bismuth subnitrate	Aids in prevention of new infections	0 days	0 hours	none
Bismuth subnitrate	Aids in prevention of new infections	0 days	0 hours	none
Benzathine cloxacillin	Treatment & Prophylaxis of mastitis	28 days	0 hours	28 days
Bismuth subnitrate	Aids in prevention of new infections	0 days	0 hours	none
Bismuth subnitrate	Aids in prevention of new infections	0 days	0 hours	none
Penicillin G procaine	Treatment of mastitis	14 days	72 hours	no label claim
Penicillin-dihydrostreptomycin	Treatment and Prevention of infections	60 days	96 hours	42 days
Penicillin-dihydrostreptomycin	Treatment and Prevention of infections	60 days	96 hours	42 days
Penicillin G procaine, Novobiocin sodium	Treatment of subclinical mastitis	30 days	72 hours	30 days
Penicillin G procaine, Novobiocin sodium	Treatment of subclinical mastitis	30 days	72 hours	30 days
Bismuth subnitrate	Aids in prevention of new infections	0 days	0 hours	none
Ceftiofur hydrochloride	Treatment of subclinical mastitis	16 days	0 hours	30 days
Ceftiofur hydrochloride	Treatment of subclinical mastitis	16 days	0 hours	30 days

ACTIVE INGREDIENT(S)	INDICATIONS	MEAT W/D	MILK W/H
Hetacillin Potassium	Treatment of subclinical mastitis	10 days	72 hours
Hetacillin Potassium	Treatment of subclinical mastitis	10 days	72 hours
Cephapirin sodium	Treatment of mastitis	4 days	96 hours
Cephapirin sodium	Treatment of mastitis	4 days	96 hours
Amoxicillin	Treatment of subclinical mastitis	12 days	60 hours
Sodium Cloxacillin	Treatment of mastitis	10 days	48 hours
Penicillin G procaine	Treatment of mastitis	3 days	60 hours
Pirlimycin hydrochloride	Treatment of clinical and subclinical mastitis	9-21 days (see label)	36 hours
Pirlimycin hydrochloride	Treatment of clinical and subclinical mastitis	9-21 days (see label)	36 hours
Ceftiofur hydrochloride	Treatment of clinical mastitis	2 days	72 hours
Ceftiofur hydrochloride	Treatment of clinical mastitis	2 days	72 hours



**For years, cattle producers
have learned to trust Y-TEX®.**

**Only Y-TEX® offers you the best in both
one-piece and two-piece ID tags.**

Y-TEX® All-American® two-piece tags and one-piece Y-Tags™ set the standard by which all other ID ear tags are measured. That's because Y-TEX® tags include cutting-edge tip designs for maximum retention. State-of-the-art 100% PureLaser™ imprinting for lifelong readability. Advanced thermo polyurethane construction for unmatched durability and pliability. Plus, easy-to-use taggers for precise application and reduced fatigue.

So this year, why not put your trust in the brands that stand for dependability, durability and value – All-American® and Y-Tags™, from Y-TEX®.



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Y-TEX®
EXCELLENCE IN ANIMAL HEALTH™



Where do you think the phrase “dropping like flies” came from?

Count on Y-TEX® insecticide ear tags to knock out flies, ticks and lice.

Insect pests can wreak havoc on your cattle, from reducing weight gains to carrying costly diseases like pink eye. That's why it pays to protect your herd with the proven performance of Y-TEX® insecticide ear tags. Y-TEX® tags control a wide range of livestock pests, including horn flies, face flies, stable flies, black flies, Gulf Coast and spinose ear ticks and lice.

So when it's time to protect your cattle from flies, ticks and lice, look for the insecticide tags that put a stop to profit-robbing pests: TRI-ZAP™, MAX 40™, XP 820®, WARRIOR™, PYthon®, PYthon® Magnum™, and Optimizer® from Y-TEX®.



Always read and follow label directions. All brands shown are trademarks or registered trademarks of Y-TEX® Corporation. © 2020 Y-TEX® Corporation.

Y•TEX®
EXCELLENCE IN ANIMAL HEALTH™



EAR TAGS

Insecticide Ear Tags | Identification Ear Tags

INSECTICIDE EAR TAGS

KEY: ■ = Synergized Pyrethroid/Macrocylic Lactone

■ = Macrocylic Lactone

PRODUCT	TRI-ZAP™	XP 820™	Double Barrel® VP	Corathon®	Dominator®	Max40™	Optimizer®
MANUFACTURER	Y-TEX	Y-TEX	MERCK	ELANCO	MERCK	Y-TEX	Y-TEX
ACTIVE INGREDIENTS	Zetacypermethrin 3.17%/ Abamectin 6%/Piperonyl Butoxide 20%	Abamectin 8%/ Piperonyl Butoxide 20%	Primiphos Methyl 14%/ Lambdacyhalothrin 6.8%	Coumaphos 15%/ Diazinon 35%	Primiphos-methyl 20%	Diazinon 40%	Diazinon 21%
SIZE	20 CT	20 CT	20 CT	20 CT	20 CT	20 CT	20 CT
	100 CT	100 CT				100 CT	100 CT
		20 Strip					
		50 Strip					
WEIGHT	9.5 GM	9 GM	9.5 GM	14 GM	9.5 GM	15 GM	15 GM
COLOR	Turquoise	Gold	Red	Slate	Yellow	Olive Green	Orange
TAGGER	Y-TEX	Y-TEX	Allflex	Allflex	Allflex	Y-TEX	Y-TEX
BEEF	Y	Y	Y	Y	Y	Y	Y
LACTATING DAIRY	Y	Y	N	N	N	N	N
NON-LACTATING DAIRY	Y	Y	Y	Y	Y	Y	Y
CALVES	Y		Y		Y	>3 months	> 3 months
MONTHS OF CONTROL	2 to 4	3 to 5	5	5	5	5	5
BLACK FLIES							
RESISTANT HORN FLIES	X	X	X	X	X	X	X
NON-RESISTANT HORN	X	X	X	X	X	X	X
FACE FLIES	X	X	X	X	X	X	X
STABLE FLIES						X	
HORSE FLIES							
HOUSE FLIES						X	
LICE	X					X	X
AMERICAN DOG TICK		X					
LONE STAR TICK		X					
CATTLE FEVER TICK		X					
GULF COAST TICK		X		X		X	X
SPINOSE TICK	X	X		X		X	X

IDENTIFICATION EAR TAGS

Midwest can help you with your ID tag needs. We represent the following tag manufactures:



EAR TAGS

Insecticide Ear Tags | Identification Ear Tags

■ = Organophosphate/ Pyrethroid

■ = Organophosphate

■ = Pyrethroid

■ = Pyrazole



<i>Patriot™</i>	<i>Warrior™</i>	<i>Cylence Ultra®</i>	<i>Gardstar® Plus</i>	<i>Python®</i>	<i>Python® Magnum™</i>	<i>Saber™ Extra</i>	<i>Tolfenpro™</i>
ELANCO	Y-TEX	ELANCO	Y-TEX	Y-TEX	Y-TEX	MERCK	ELANCO
Diazinon 40%	Diazinon 30%/ Chlorpyrifos 10%	Piperonyl Butoxide 20%/ Beta-cyfluthrin 8%	Permethrin 10%	Zetacypermethrin, S-enantiomer S-cyano 10%/ Piperonyl Butoxide 20%	Zetacypermethrin, S-enantiomer S-cyano 10%/ Piperonyl Butoxide 20%	Piperonyl Butoxide 13%/ Lambda-cyhalothrin 10%	Tolfenpyrad 15%
20 CT	20 CT	20 CT	25 CT	20 CT	20 CT	20 CT	20 CT
120 CT	100 CT			100 CT	100 CT		
				20 Strip			
				50 Strip			
15 GM	15 GM	14.17 GM	9.5 GM	9.5 GM	15.4 GM	9.5 GM	14 GM
Orange	Green	Purple	Red	Purple	Blue	Violet	Grey
Allflex	Y-TEX	Allflex	Y-TEX	Y-TEX	Y-TEX	Allflex	Allflex
Y	Y	Y	Y	Y	Y	Y	Y
N	N	Y	Y	Y	Y	N	Y
Y	Y	Y	Y	Y	Y	Y	Y
> 3 months	> 3 months	> 3 months	Y	Y	> 3 months	Y	Y
5	3 to 5	5	5	3 to 5	3 to 5	4 to 5	5
				X			
X	X	X		X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X		X	X	X		
				X			
X	X		X	X	X		
	X		X	X	X		
X	X	X	X	X			
X	X	X	X	X			

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Datamars Livestock links tools that promote animal health, enable precision animal management, and improve protein production. These tools work together, communicating with each other and communicating with you.

Learn more about our products today at 800.433.3112 or livestock.datamars.com.



IN THE EAR, EVERY TIME, THE FIRST TIME.

We pride ourselves on superior retention, outstanding readability, and industry-leading durability. Whether you're in the market for a one piece or two piece tag, we have an identification solution for you.



Z1 No-Snag-Tag[®]

Foolproof one-piece design that ensures durability, faster healing, and easy application.



Stockman Two-Piece Tag

Premium two-piece tag with better retention, flexible material, and outstanding durability.



CATTLE IMPLANTS

CATTLE IMPLANTS

PRODUCT	CODE	SIZE	MANUFACTURER	ESTRADIOL	PROGESTERONE	TESTOSTERONE	
COMPONENT® E-S W/TYLAN®	406.20000.3	20 DS	ELANCO	20 MG	200 MG		
COMPONENT® E-H W/TYLAN®	406.20010.3	20 DS	ELANCO	20 MG		200 MG	
COMPONENT® E-C W/TYLAN®	406.20015.3	20 DS	ELANCO	10 MG	100 MG		
COMPONENT® TE-G W/TYLAN®	406.20020.3	20 DS	ELANCO	8 MG			
COMPONENT® TE-IH W/TYLAN®	406.20025.3	20 DS	ELANCO	8 MG			
COMPONENT® TE-IS W/TYLAN®	406.20030.3	20 DS	ELANCO	16 MG			
COMPONENT® TE-H W/TYLAN®	406.20035.3	20 DS	ELANCO	14 MG			
COMPONENT® TE-S W/TYLAN®	406.20040.3	20 DS	ELANCO	24 MG			
COMPONENT® TE-200 W/TYLANv	406.20050.3	20 DS	ELANCO	20 MG			
COMPUDOSE®	406.30010.3	20 DS	ELANCO	25.7 MG			
ENCORE®	406.50050.3	20 DS	ELANCO	43.9 MG			
FINAPLIX®-H	349.22800.3	10 X 10 DS	MERCK				
RALGRO®	349.75560.3	24 DS	MERCK				
RALGRO®	349.75500.3	10 X 24 DS	MERCK				
REVALOR®-G	349.76210.3	10 X 10 DS	MERCK	8 MG			
REVALOR®-H	349.76300.3	10 X 10 DS	MERCK	14 MG			
REVALOR®-IH	349.76400.3	10 X 10 DS	MERCK	8 MG			
REVALOR®-IS	349.76500.3	10 X 10 DS	MERCK	16 MG			
REVALOR®-S	349.76600.3	10 X 10 DS	MERCK	24 MG			
REVALOR®-200	349.76100.3	10 X 10 DS	MERCK	20 MG			
REVALOR®- XH	349.76215.3	10 X 10 DS	MERCK	20 MG			
REVALOR®- XS	349.76700.3	10 X 10 DS	MERCK	40 MG			
SYNOVEX® CHOICE	275.39015.3	10 X 10 DS	ZOETIS, INC.	14 MG			
SYNOVEX® C	275.39005.3	10 X 10 DS	ZOETIS, INC.	10 MG	100 MG		
SYNOVEX® H	275.39006.3	10 X 10 DS	ZOETIS, INC.	20 MG		200 MG	
SYNOVEX® PLUS™	275.39010.3	10 X 10 DS	ZOETIS, INC.	28 MG			
SYNOVEX® ONE FEEDLOT	275.39019.3	10 X 10 DS	ZOETIS, INC.	28 MG			
SYNOVEX® ONE GRASS	275.39017.3	10 X 10 DS	ZOETIS, INC.	21 MG			
SYNOVEX® S	275.39008.3	10 X 10 DS	ZOETIS, INC.	20 MG	200 MG		
Active Ingredient Full Names							
Estradiol	estradiol benzoate						
Progesterone							
Testosterone	testosterone propionate						
Trenbolone	trenbolone acetate						
Tylosin tartrate							
Zeranol							

CATTLE IMPLANTS



TRENBOLONE	TYLOSIN TARTRATE	ZERANOL	SUCKLING CALVES		STOCKER CATTLE		FEED LOT CATTLE	
			STEERS	HEIFERS	STEERS	HEIFERS	STEERS	HEIFERS
	29 MG				X		X	
	29 MG					X		X
	29 MG		X	X				
40 MG	29 MG				X	X		
80 MG	29 MG							X
80 MG	29 MG						X	
140 MG	29 MG							X
120 MG	29 MG						X	
200 MG	29 MG						X	X
			X		X		X	X
			X		X		X	X
200 MG								X
		36 MG	X	X	X	X	X	X
		36 MG	X	X	X	X	X	X
40 MG					X	X		
140 MG								X
80 MG								X
80 MG							X	
120 MG							X	
200 MG							X	X
200 MG								X
200 MG							X	
100 MG							X	X
			X	X			X	
						X		X
200 MG							X	X
200 MG							X	X
150 MG					X	X	X	X
					X		X	



Extended-Release Injectable Parasiticide

5% Sterile Solution

For the Treatment and Control of Internal and External Parasites of Cattle on Pasture with Persistent Effectiveness

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.

INDICATIONS FOR USE

LONGRANGE, when administered at the recommended dose volume of 1 mL per 110 lb (50 kg) body weight, is effective in the treatment and control of the following internal and external parasites of cattle:

Gastrointestinal Roundworms	Lungworms
<i>Bunostomum phlebotomum</i> – Adults and L ₄	
<i>Cooperia oncophora</i> – Adults and L ₄	<i>Dictyocaulus viviparus</i> – Adults
<i>Cooperia punctata</i> – Adults and L ₄	
<i>Cooperia surnabada</i> – Adults and L ₄	Grubs
<i>Haemonchus placei</i> – Adults	<i>Hypoderma bovis</i>
<i>Oesophagostomum radiatum</i> – Adults	
<i>Ostertagia lyrata</i> – Adults	Mites
<i>Ostertagia ostertagi</i> – Adults, L ₄ and inhibited L ₄	
<i>Trichostrongylus axei</i> – Adults and L ₄	<i>Sarcoptes scabiei</i> var. <i>bovis</i>
<i>Trichostrongylus colubriformis</i> – Adults	

Parasites	Durations of Persistent Effectiveness
Gastrointestinal Roundworms	
<i>Bunostomum phlebotomum</i>	150 days
<i>Cooperia oncophora</i>	100 days
<i>Cooperia punctata</i>	100 days
<i>Haemonchus placei</i>	120 days
<i>Oesophagostomum radiatum</i>	120 days
<i>Ostertagia lyrata</i>	120 days
<i>Ostertagia ostertagi</i>	120 days
<i>Trichostrongylus axei</i>	100 days
Lungworms	
<i>Dictyocaulus viviparus</i>	150 days

DOSAGE AND ADMINISTRATION

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.

Do not underdose. Ensure each animal receives a complete dose based on a current body weight. Underdosing may result in ineffective treatment, and encourage the development of parasite resistance.

LONGRANGE is to be given subcutaneously only. Animals should be appropriately restrained to achieve the proper route of administration. Inject under the loose skin in front of the shoulder (see illustration) using a 16 or 18 gauge, ½ to ¾ inch needle.

Sanitize the injection site by applying a suitable disinfectant. Clean, properly disinfected needles should be used to reduce the potential for injection site infections.

Body Weight (lb)	Dose Volume (mL)
110	1
220	2
330	3
440	4
550	5
660	6
770	7
880	8
990	9
1100	10



Withdrawal Periods and Residue Warnings

Animals intended for human consumption must not be slaughtered within 48 days of the last treatment. This drug product is not approved 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. A withdrawal period has not been established for pre-ruminating calves. Do not use in calves to be processed for veal.

Animal Safety Warnings and Precautions

The product is likely to cause tissue damage at the site of injection, including possible granulomas and necrosis. These reactions have disappeared without treatment. Local tissue reaction may result in trim loss of edible tissue at slaughter.

Observe cattle for injection site reactions. If injection site reactions are suspected, consult your veterinarian. This product is not for intravenous or intramuscular use. Protect product from light. LONGRANGE® (eprinomectin) has been developed specifically for use in cattle only. This product should not be used in other animal species.

When to Treat Cattle with Grubs

LONGRANGE effectively controls all stages of cattle grubs. However, proper timing of treatment is important. For the most effective results, cattle should be treated as soon as possible after the end of the heel fly (warble fly) season.

Environmental Hazards

Not for use in cattle managed in feedlots or under intensive rotational grazing because the environmental impact has not been evaluated for these scenarios.

Other Warnings: Parasite resistance may develop to any dewormer, and has been reported for most classes of dewormers.

Treatment with a dewormer used in conjunction with parasite management practices appropriate to the geographic area and the animal(s) to be treated may slow the development of parasite resistance.

Fecal examinations or other diagnostic tests and parasite management history should be used to determine if the product is appropriate for the herd/flock, prior to the use of any dewormer. Following the use of any dewormer, effectiveness of treatment should be monitored (for example, with the use of a fecal egg count reduction test or another appropriate method).

A decrease in a drug's effectiveness over time as calculated by fecal egg count reduction tests may indicate the development of resistance to the dewormer administered. Your parasite management plan should be adjusted accordingly based on regular monitoring.

Macrocyclic lactones provide prolonged drug exposure that may increase selection pressure for resistant parasites. This effect may be more pronounced in extended-release formulations.

TARGET ANIMAL SAFETY

Clinical studies have demonstrated the wide margin of safety of LONGRANGE® (eprinomectin). Overdosing at 3 to 5 times the recommended dose resulted in a statistically significant reduction in average weight gain when compared to the group tested at label dose. Treatment-related lesions observed in most cattle administered the product included swelling, hyperemia, or necrosis in the subcutaneous tissue of the skin. The administration of LONGRANGE at 3 times the recommended therapeutic dose had no adverse reproductive effects on beef cows at all stages of breeding or pregnancy or on their calves.

Not for use in bulls, as reproductive safety testing has not been conducted in males intended for breeding or actively breeding. Not for use in calves less than 3 months of age because safety testing has not been conducted in calves less than 3 months of age.

STORAGE

Store at 77° F (25° C) with excursions between 59° and 86° F (15° and 30° C). Protect from light.

Approved by FDA under NADA # 141-327

Made in Canada.

Manufactured for Boehringer Ingelheim Animal Health USA Inc., Duluth, GA 30096

*The Cattle Head Logo and *LONGRANGE are registered trademarks of Boehringer Ingelheim Animal Health USA Inc.

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veterinary supply

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Outside Sales Rep

Oklahoma

Brief Summary of Prescribing Information for Cattle.

ADVOCIN™ (danofloxacin injection)

Sterile Injectable Solution

Antimicrobial

180 mg of danofloxacin as the mesylate salt/mL

For subcutaneous use in beef cattle.

Not for use in cattle intended for dairy production or in calves to be processed for veal.

CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian. Federal law prohibits the extra-label use of this drug in food-producing animals.

INDICATIONS: For the treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica* and *Pasteurella multocida* in beef cattle and for the control of BRD in beef cattle at high risk of developing BRD associated with *Mannheimia haemolytica* and *Pasteurella multocida*.

DOSAGE AND ADMINISTRATION: Care should be taken to dose accurately. Administered dose volume should not exceed 15 mL per injection site.

Single-Dose Therapy (BRD Treatment and Control in Cattle at High Risk): Administer subcutaneously at 8 mg/kg of body weight (2 mL/100 lb) as a one-time injection.

Multi-Day Therapy (BRD Treatment): Administer subcutaneously at 6 mg/kg of body weight (1.5 mL/100 lb) with this treatment repeated once approximately 48 hours following the first injection.

ADVOCIN Dosage and Treatment Schedule

Cattle Weight (lb)	Dose Volume (mL)	
	6 mg/kg, given twice, 48 hours apart (treatment)	8 mg/kg given once (treatment and control in cattle at high risk)
50	0.75	1
100	1.5	2
150	2.25	3
200	3	4
250	3.75	5
300	4.5	6
400	6	8
500	7.5	10
600	9	12
700	10.5	14
800	12	16*
900	13.5	18*
1000	15	20*

* Administered dose volume should not exceed 15 mL per injection site.

Clinical field studies indicate that ADVOCIN (danofloxacin injection) Sterile Injectable Solution is effective for the control of respiratory disease in beef cattle at high risk of developing BRD. Cattle at high risk of developing BRD typically experience one or more of the following risk factors:

- Commingling from multiple sale barns/sources
- Extended transport times and shrink
- Exposure to wet or cold weather conditions or wide temperature swings
- Stressful arrival processing procedures (such as castration, dehorning, or branding)
- Recent weaning or poor vaccination history

RESIDUE WARNINGS: Animals intended for human consumption must not be slaughtered within 4 days from the last treatment. Do not use in cattle intended for dairy production. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

HUMAN WARNINGS: For use in animals only. Keep out of reach of children. Avoid contact with eyes. In case of contact, immediately flush eyes with copious amounts of water for 15 minutes. In case of dermal contact, wash skin with soap and water. Consult a physician if irritation persists following ocular or dermal exposures. Individuals with a history of hypersensitivity to quinolones should avoid this product. In humans, there is a risk of user photosensitization within a few hours after excessive exposure to quinolones. If excessive accidental exposure occurs, avoid direct sunlight. To report adverse reactions or to obtain a copy of the Safety Data Sheet (SDS), call 1-888-963-8471.

PRECAUTIONS: The effects of danofloxacin on bovine reproductive performance, pregnancy, and lactation have not been determined.

Subcutaneous injection can cause a transient local tissue reaction that may result in trim loss of edible tissue at slaughter.

Quinolone-class drugs should be used with caution in animals with known or suspected central nervous system (CNS) disorders. In such animals, quinolones have, in rare instances, been associated with CNS stimulation, which may lead to convulsive seizures.

Quinolone-class drugs have been shown to produce erosions of cartilage of weight-bearing joints and other signs of arthropathy in immature, rapidly growing animals of various species. Refer to Animal Safety for information specific to danofloxacin.

ADVERSE REACTIONS: A hypersensitivity reaction was noted in 2 healthy calves treated with ADVOCIN in a laboratory study. In one location of a multi-site field trial, one out of the 41 calves treated with 6 mg/kg q 48 hours showed lameness on Day 6 only. In this same field trial location one of 38 calves treated with 8 mg/kg once became lame 4 days after treatment and remained lame on the last day of the study (Day 10). Another calf in the same treatment group developed lameness on the last day of the study.

STORAGE INFORMATION: Store at or below 30°C (86°F). Protect from light. Protect from freezing. The color is yellow to amber and does not affect potency. When using a draw-off spike or needle with bore diameter larger than 16 gauge, discard any product remaining in the vial immediately after use.

100 mL vial: Use this product within 28 days of the first puncture and puncture a maximum of 7 times. If more than 7 punctures are anticipated, the use of automatic injection equipment or a repeater syringe is recommended.

250 mL vial: Use this product within 28 days of the first puncture and puncture a maximum of 17 times. If more than 17 punctures are anticipated, the use of automatic injection equipment or a repeater syringe is recommended.

HOW SUPPLIED: ADVOCIN (180 mg danofloxacin/mL) is supplied in 100- and 250-mL, amber-glass, sterile, multi-dose vials.

Approved by FDA under NADA # 141-207

Distributed by:
zoetis
Zoetis Inc.
Kalamazoo, MI 49007

Use Only as Directed

CONTACT INFORMATION: To report suspected adverse effects and/or obtain a copy of the SDS or for technical assistance, call Zoetis Inc. at 1-888-963-8471. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at www.fda.gov/reportanimalae.



100 mL: Revised: June 2019
40023654A&P

250mL: Revised: June 2019
40023658A&P

ANADA 200-591, Approved by FDA

Norfenicol® (florfenicol) Injectable Solution 300 mg/mL

For intramuscular and subcutaneous use in beef and non-lactating dairy cattle only.

BRIEF SUMMARY (For full Prescribing Information, see package insert.)

INDICATIONS: Norfenicol is indicated for treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida*, and *Histophilus somni*, and for the treatment of foot rot. Also, it is indicated for control of respiratory disease in cattle at high risk of developing BRD associated with *M. haemolytica*, *P. multocida*, and *H. somni*.

CONTRAINDICATIONS: Do not use in animals that have shown hypersensitivity to florfenicol.

NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN.

Can be irritating to skin and eyes. Avoid direct contact with skin, eyes, and clothing. In case of accidental eye exposure, flush with water for 15 minutes. In case of accidental skin exposure, wash with soap and water. Remove contaminated clothing. Consult physician if irritation persists. Accidental injection of this product may cause local irritation. Consult physician immediately. The risk information provided here is not comprehensive. To learn more, talk about Norfenicol with your veterinarian. For customer service, adverse effects reporting, or to obtain a copy of the MSDS or FDA-approved package insert, call 1-866-591-5777.

PRECAUTIONS: Not for use in animals intended for breeding. Effects on bovine reproductive performance, pregnancy, and lactation have not been determined. Intramuscular injection may result in local tissue reaction which persists beyond 28 days. This may result in trim loss at Tissue reaction at injection sites other than the neck is likely to be more severe.

RESIDUE WARNINGS: Animals intended for human consumption must not be slaughtered within 28 days of the last intramuscular treatment. Animals intended for human consumption must not be slaughtered within 33 days of subcutaneous treatment. Not approved for use in female dairy cattle 20 months of age or older, including dry dairy cows as such use may cause drug residues in milk and/or in calves born to these cows. A withdrawal period has not been established in pre-ruminating calves. Do not use in calves to be processed for veal.

ADVERSE REACTIONS: Inappetence, decreased water consumption, or diarrhea may occur transiently.

Manufactured by:

Norbrook Laboratories Limited, Newry, BT35 6PU, Co. Down, Northern Ireland.

The Norbrook logos and Norfenicol® are registered trademarks of Norbrook Laboratories Limited.



Brief Summary of Prescribing Information for Cattle.



Antibiotic

100 mg of tulathromycin/mL

For use in beef cattle (including suckling calves), non-lactating dairy cattle (including dairy calves) and veal calves. Not for use in female dairy cattle 20 months of age or older.

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

DESCRIPTION

DRAXXIN Injectable Solution is a ready-to-use sterile parenteral preparation containing tulathromycin, a semi-synthetic macrolide antibiotic of the subclass triamidine. Each mL of DRAXXIN contains 100 mg of tulathromycin, 500 mg propylene glycol, 19.2 mg citric acid and 5 mg monothioglycerol. Sodium hydroxide or hydrochloric acid may be added to adjust pH.

DRAXXIN consists of an equilibrated mixture of two isomeric forms of tulathromycin in a 9:1 ratio.

The chemical names of the isomers are (2R,3S, 4R,5R,8R,10R,11R,12S,13S,14R)-13-[[2,6-dideoxy-3-C-methyl-3-O-methyl-4-C-[(propylamino) methyl]-α-L-ribo-hexopyranosyl]oxy]-2-ethyl-3,4,10-trihydroxy-3,5,8,10,12,14-hexamethyl-11-[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]-oxy]-1-oxa-6-azacyclodecane-15-one and (2R,3R,6R,8R,9R,10S,11S,12R)-11-[[2,6-dideoxy-3-C-methyl-3-O-methyl-4-C-[(propylamino) methyl]-α-L-ribo-hexopyranosyl]oxy]-2-[[1R,2R)-1,2-dihydroxy-1-methylbutyl]-8-hydroxy-3,6,8,10,12-pentamethyl-9-[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxy]-1-oxa-4-azacyclodecane-13-one, respectively.

INDICATIONS

Beef and Non-Lactating Dairy Cattle

BRD – DRAXXIN Injectable Solution is indicated for the treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida*, *Histophilus somni*, and *Mycoplasma bovis*; and for the control of respiratory disease in cattle at high risk of developing BRD associated with *Mannheimia haemolytica*, *Pasteurella multocida*, *Histophilus somni*, and *Mycoplasma bovis*.

IBK – DRAXXIN Injectable Solution is indicated for the treatment of infectious bovine keratoconjunctivitis (IBK) associated with *Moraxella bovis*.

Foot Rot – DRAXXIN Injectable Solution is indicated for the treatment of bovine foot rot (interdigital necrobacillosis) associated with *Fusobacterium necrophorum* and *Porphyromonas levi*.

Suckling Calves, Dairy Calves, and Veal Calves

BRD – DRAXXIN Injectable Solution is indicated for the treatment of BRD associated with *M. haemolytica*, *P. multocida*, *H. somni*, and *M. bovis*.

DOSAGE AND ADMINISTRATION

Inject subcutaneously as a single dose in the neck at a dosage of 2.5 mg/kg (1.1 mL/100 lb) body weight (BW). Do not inject more than 10 mL per injection site.

Table 1. DRAXXIN Cattle Dosing Guide

Animal Weight (Pounds)	Dose Volume (mL)
100	1.1
200	2.3
300	3.4
400	4.5
500	5.7
600	6.8
700	8.0
800	9.1
900	10.2
1000	11.4

CONTRAINDICATIONS

The use of DRAXXIN Injectable Solution is contraindicated in animals previously found to be hypersensitive to the drug.

WARNINGS

FOR USE IN ANIMALS ONLY.

NOT FOR HUMAN USE.

KEEP OUT OF REACH OF CHILDREN.

NOT FOR USE IN CHICKENS OR TURKEYS.

RESIDUE WARNINGS

Cattle intended for human consumption must not be slaughtered within 18 days from the last treatment. This drug is not approved 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.

PRECAUTIONS

The effects of DRAXXIN on bovine reproductive performance, pregnancy, and lactation have not been determined. Subcutaneous injection can cause a transient local tissue reaction that may result in trim loss of edible tissue at slaughter.

ADVERSE REACTIONS

In one BRD field study, two calves treated with DRAXXIN at 2.5 mg/kg BW exhibited transient hypersalivation. One of these calves also exhibited transient dyspnea, which may have been related to pneumonia.

STORAGE CONDITIONS

Store below 25°C (77°F), with excursions up to 40°C (104°F). Use this product within 45 days of the first puncture and puncture a maximum of 20 times. If more than 20 punctures are anticipated, the use of automatic injection equipment of a repeater syringe is recommended. When using a draw-off spike or needle with bore diameter larger than 16 gauge, discard any product remaining in the vial immediately after use.

HOW SUPPLIED

DRAXXIN Injectable Solution is available in the following package sizes:

50 mL vial
100 mL vial
250 mL vial
500 mL vial

Approved by FDA under NADA # 141-244

zoetis

Distributed by:
Zoetis Inc.
Kalamazoo, MI 49007

To report a suspected adverse reaction or to request a safety data sheet call 1-888-963-8471.

For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at <http://www.fda.gov/AnimalVeterinary/SafetyHealth>.

For additional DRAXXIN product information call:

1-888-DRAXXIN or go to www.DRAXXIN.com

TAKE TIME



OBSERVE LABEL
DIRECTIONS

Revised: March 2019

40026770A&P

Brief Summary of Prescribing Information for Cattle.



For subcutaneous injection in the posterior aspect of the ear where it attaches to the head (base of the ear) in lactating dairy cattle. For subcutaneous injection in the middle third of the posterior aspect of the ear or in the posterior aspect of the ear where it attaches to the head (base of the ear) in beef and non-lactating dairy cattle. Not for use in calves to be processed for veal.

CAUTION

Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian. Federal law prohibits extra-label use of this drug in cattle for disease prevention purposes; at unapproved doses, frequencies, durations, or routes of administration; and in unapproved major food producing species/production classes.

INDICATIONS

EXCEDE Sterile Suspension is indicated for treatment of bovine respiratory disease (BRD), shipping fever, pneumonia) associated with *Mannheimia haemolytica*, *Pasteurella multocida*, and *Histophilus somni* in beef, non-lactating dairy, and lactating dairy cattle.

EXCEDE Sterile Suspension is also indicated for the control of respiratory disease in beef and non-lactating dairy cattle which are at high risk of developing BRD associated with *M. haemolytica*, *P. multocida*, and *H. somni*.

EXCEDE Sterile Suspension is also indicated for the treatment of bovine foot rot (interdigital necrobacillosis) associated with *Fusobacterium necrophorum* and *Porphyromonas levi* in beef, non-lactating dairy, and lactating dairy cattle.

EXCEDE Sterile Suspension is also indicated for treatment of acute metritis (0-10 days post-partum) associated with bacterial organisms susceptible to ceftiofur in lactating dairy cattle.

CONTRAINDICATIONS

As with all drugs, the use of EXCEDE Sterile Suspension is contraindicated in animals previously found to be hypersensitive to the drug.

WARNINGS

FOR USE IN ANIMALS ONLY. NOT FOR HUMAN USE.

KEEP OUT OF REACH OF CHILDREN.

Penicillins and cephalosporins can cause allergic reactions in sensitized individuals. Topical exposures to such antimicrobials, including ceftiofur, may elicit mild to severe allergic reactions in some individuals. Repeated or prolonged exposure may lead to sensitization. Avoid direct contact of the product with the skin, eyes, mouth and clothing. Sensitization of the skin may be avoided by wearing protective gloves.

Persons with a known hypersensitivity to penicillin or cephalosporins should avoid exposure to this product.

In case of accidental eye exposure, flush with water for 15 minutes. In case of accidental skin exposure, wash with soap and water. Remove contaminated clothing. If allergic reaction occurs (e.g., skin rash, hives, difficult breathing), seek medical attention.

The material safety data sheet contains more detailed occupational safety information. To obtain a material safety data sheet or to report any adverse event please call 1-888-963-8471.

Intra-arterial injection may occur during administration of EXCEDE Sterile Suspension via middle third of the ear injection or base of the ear injection directed towards the opposite eye. Intra-arterial injection of EXCEDE Sterile Suspension is likely to result in sudden death of the animal.

RESIDUE WARNINGS

- Following label use as either a single-dose or 2-dose regimen, a 13-day pre-slaughter withdrawal period is required after the last treatment.
- Following label use as either a single-dose or 2-dose regimen, no milk discard period is required for this product.
- Use of dosages in excess of 3.0 mg CE/lb (6.6 mg CE/kg) BW or administration by unapproved routes (subcutaneous injection in the neck or intramuscular injection) may cause violative residues.
- A withdrawal period has not been established for this product in pre-maturing calves.
- Do not use in calves to be processed for veal.

ANTIBACTERIAL WARNINGS

Use of antibacterial drugs in the absence of a susceptible bacterial infection is unlikely to provide benefit to treated animals and may increase the risk of the development of drug-resistant bacteria.

PRECAUTIONS

Following subcutaneous injection in the middle third of the posterior aspect of the ear, thickening and swelling (characterized by aseptic cellular infiltrate) of the ear may occur. As with other parenteral injections, localized post-injection bacterial infections may result in abscess formation. Attention to hygienic procedures can minimize their occurrence.

Following injection in the posterior aspect of the ear where it attaches to the head (base of the ear), areas of discoloration and signs of inflammation may persist at least 13 days post administration resulting in trim loss of edible tissue at slaughter. Injection of volumes greater than 20 mL, in the middle third of the ear, may result in open draining lesions in a small percentage of cattle.

The effects of ceftiofur on bovine reproductive performance, pregnancy, and lactation have not been determined.

ADVERSE EFFECTS

Intra-arterial injection may occur during administration of EXCEDE Sterile Suspension via middle third of the ear injection or base of the ear injection directed towards the opposite eye. Intra-arterial injection of EXCEDE Sterile Suspension is likely to result in sudden death of the animal. During the conduct of clinical studies, there was a low incidence of acute death (see ANIMAL SAFETY) confirmed to be the result of inadvertent intra-arterial injection. No other adverse systemic effects were noted for either the antibiotic or formulation during any of the clinical and target animal safety studies.

STORAGE CONDITIONS

Store at controlled room temperature 20° to 25°C (68° to 77°F). Shake well before using. Contents should be used within 12 weeks after the first dose is removed.

HOW SUPPLIED

EXCEDE Sterile Suspension is available in the following package sizes:

100 mL vial
250 mL vial

Approved by FDA under NADA # 141-209

zoetis

Distributed by:
Zoetis Inc.
Kalamazoo, MI 49007
www.EXCEDE.com or call 1-888-963-8471

Revised: January 2020
40029632A&P

Impact of Implants in a Preconditioning Program

By Lee-Anne Walter, PhD,
Technical Services, Merck Animal Health



It's weaning time in many parts of the country, and if you're preconditioning calves – even if only for a short period of time – this is a perfect opportunity to implant them. Here are five points for consideration if you're weighing the decision of using implants as you prepare calves for the feedlot:

No. 1: There's an economic benefit even if the preconditioning phase is short

Research shows certain implants used in backgrounding cattle provides close to a 10 percent improvement in average daily gain (ADG).¹⁻⁵ If cattle gain 2.0 pounds of gain per day without an implant in a 60-day preconditioning period, implanting with specific implants will improve ADG to 2.2 pounds per day. This equates to 12 pounds additional weight gain in 60 days.

An implant administered to cattle with better basal rates of gain due to nutrition, health or genetics will result in an even greater improvement in weight gain.

No. 2: Weight gain from implanting at preconditioning is additive

When the right implants are used – matching strength of the implant to weight, growth rate and composition of gain – an ROI can be achieved during each phase of production.

A study shows that implanted calves were 19 pounds heavier after the suckling phase and continued to perform at an improved growth rate in the growing phase. Cattle implanted in both suckling phase and growing phase were 40 pounds heavier than calves that never received an implant in either phase of production.⁶

Another study found cattle implanted in suckling and backgrounding phases gained as well as non-implanted

counterparts (that received their first implants at the start of the finishing phase) in the finishing period. Ultimately, cattle that were implanted in earlier phases of production were heavier after the finishing period.⁷

No. 3: Implants go to work quickly

Some implants have active ingredients that can reach effective levels within the first day of administration and can peak in as little as 8 days after implanting. Plasma levels can elevate out to 91 days post-implanting.⁸

No. 4: Implanted calves can put more money in your pocket

Unless calves ultimately will be marketed in verified NHTC programs that offer a premium that outweighs the productivity and efficiency of gains from implants, calves that are destined for finishing and sale to a terminal market should be implanted.

No. 5: Implants are easy

Implanting is one of the most researched, proven and consistent cattle production technologies on the market. Certain implants have been used for more than 50 years, and few are approved for use in calves, stockers and feedlot cattle on both steers and heifers.

1. Simms DD, Goehring TB, Brandt RT, Jr, Kuhl GL, Higgins JJ, Laudert SB, Lee RW. 1988. Effect of sequential implanting with zeranol on steer lifetime performance. *J. Anim. Sci.* 66:2736-2741.
2. Mader TL, Clanton DC, Ward JK, Pankaskie DE, Duetscher GH. 1985. Effect of pre- and postweaning zeranol implant on steer calf performance. *J. Anim. Sci.* 61:546-551.
3. Thies, PJ and Embry, LB, 1972. Diethylstilbestrol, Melengestrol Acetate and Zeranol During Growing and Finishing of Feedlot Heifers. *South Dakota Cattle Feeders Field Day Proceedings and Research Reports*. Paper 13.
4. Embry, LB and Swan, WS, 1974. Diethylstilbestrol, Zeranol or Synovex-S Implants for Growing Steers. *South Dakota Cattle Feeders Field Day Proceedings and Research Reports*, Paper 4.
5. Embry, LB, Goetz, MS and Luther, RM, 1982. Implanting Site for Ralgro Compared to Synovex-S for Growing and Finishing Steers. *South Dakota Cattle Feeders Field Day Proceedings and Research Reports*. Paper 10.
6. Laudert SB, Matsushima JK, Wray MW. Effect of Ralgro implant on suckling, growing and finishing cattle. 1981.
7. Pritchard RH, Bruns KW, Boggs DL. A comparison of lifetime implant strategies for beef steers. *South Dakota Beef Report*, 2003.
8. Pusateri AE, Kenison DC. Measurement of zeranol in plasma from three blood vessels in steers implanted with zeranol. *J. Anim. Sci.* 1993; 71(2):415-419.



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MIX**





REPLACERS & SUPPLEMENTS

PRODUCT	MVS#	SIZE	GLOBULIN PROTEIN	INDICATED USE
JORGENSEN LABORATORIES INC				
FIRST COLOSTRUM	350.05962.2	350 GM	50GM/Pouch	Colostrum Supplement
SCCL				
BOVINE IGG COLOSTRUM 200™	031.00055.3	750 GM	200 GM/Pouch	Colostrum Replacer
CALF'S CHOICE TOTAL™ GOLD (High Immunity)	031.00015.3	225 GM	60 GM/Pouch	Colostrum Replacer
CALF'S CHOICE TOTAL™ HICAL (Bronze)	031.00030.3	700 GM	100 GM/Pouch	Colostrum Replacer
CALF'S CHOICE TOTAL™ HICAL (Bronze)	031.00033.3	16.8 KG 24 DS	100 GM/Pouch	Colostrum Replacer
COLOSTRX® CR (Whey Based / USDA Licensed)	801.00370.3	500 GM	100GM/Pouch	Colostrum Replacement
COLOSTRX® CS (Whey Based / USDA Licensed)	801.00368.3	350 GM	50GM/Pouch	Colostrum Supplement





PHARMACEUTICALS

Acetonemia Preparations | Anesthetic | Antacid & Absorbent Preparations | Antidiarrheals | Anticoccidials

ACETONEMIA (KETOSIS) PREPARATIONS

MANUFACTURER	MVS#	SIZE	PRODUCT
JORGENSEN LABS., INC.	350.05930.2	310 GM	KETO-GEL™
PHOENIX	193.62670.3	GAL	PROPYLENE GLYCOL

ANESTHETIC

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
PHOENIX	193.43111.3	100 ML	LIDOCAINE HYDROCHLORIDE INJECTABLE	Lidocaine Hydrochloride	2%
PHOENIX	193.43112.3	250 ML	LIDOCAINE HYDROCHLORIDE INJECTABLE	Lidocaine Hydrochloride	2%

ANTACID & ABSORBENT PREPARATIONS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
PHOENIX	193.00285.3	GAL	BISMUSOL ORAL SUSPENSION	Bismuth Subsalicylate	1.75% w/w
PRN PHARMACAL	193.17320.3	50 CT	ENDOSORB™ BOLUS	Activated attapulgite	240 GR
PRN PHARMACAL	193.17322.3	4 OZ	ENDOSORB™ SUSPENSION	Activated attapulgite	150 MG/ML
PRN PHARMACAL	193.17324.3	GAL	ENDOSORB™ SUSPENSION	Activated attapulgite	150 MG/ML
PHOENIX	193.39800.3	GAL	KAO-PECT+	Kaolin (colloidal)	90 GR/OZ
PHOENIX	193.46605.3	50 CT	MAGNALAX BOLUS	Magnesium Oxide	17.9 GM
PHOENIX	193.45630.3	1 LB	MAGNALAX POWDER	Magnesium Hydroxide	10.35 oz
PHOENIX	193.45633.3	25 LB	MAGNALAX POWDER	Magnesium Hydroxide	10.35 oz
VEDCO	562.30509.3	25 LB	MAGNALAX POWDER	Magnesium Hydroxide	10.35 oz

ANTIDIARRHEALS

MANUFACTURER	MVS#	SIZE	PRODUCT
VETOQUINOL USA, INC.	733.08018.3	2.2 LB	EPIC® CALF SCOUR FORMULA
VETOQUINOL USA, INC.	733.08016.3	22 LB	EPIC® CALF SCOUR FORMULA

ANTICOCCIDIALS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH	MEAT W/D
BIMEDA, INC.	193.02501.3	GAL	AMPROLIUM 9.6% ORAL SOLUTION	Amprolium	9.60%	24 hours
HUVEPHARMA, INC.	801.00405.3	16 OZ	CORID® 9.6% ORAL SOLUTION	Amprolium	9.60%	24 hours
HUVEPHARMA, INC.	801.00410.3	GAL	CORID® 9.6% ORAL SOLUTION	Amprolium	9.60%	24 hours
HUVEPHARMA, INC.	801.00415.3	10 OZ	CORID® 20% SOLUBLE POWDER	Amprolium	20%	24 hours



ANTIDOTES

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
VETS PLUS	735.11000.3	300 ML	KLATOX™ GEL	Attapulgit Clay Kaolin	200 MG/ML 50 MG/ML
LLOYD, INC.	730.00435.3	1 LB	TOXIBAN® GRANULES	MedChar™ (Activated charcoal) Sorbitol Kaolin	475 GM/KG 200 GM/KG 100 GM/KG
LLOYD, INC.	730.00440.3	5 KG	TOXIBAN® GRANULES	MedChar™ (Activated charcoal) Sorbitol Kaolin	475 GM/KG 200 GM/KG 100 GM/KG
LLOYD, INC.	730.00450.3	240 ML	TOXIBAN® SUSPENSION	MedChar™ (Activated charcoal) Kaolin	104 MG/ML 62.5 MG/ML
LLOYD, INC.	730.00452.3	240 ML	TOXIBAN® SUSPENSION W/SORBITOL	MedChar™ (Activated charcoal) Sorbitol solution, USP Kaolin	100 MG/ML 100 MG/ML 62.5 MG/ML
NICH MARKETERS INC.	507.70000.3	60 ML	UNIVERSAL ANIMAL ANTIDOTE	Activated Hardwood Charcoal Kaolin	120 MG/ML 60 MG/ML
NICH MARKETERS INC.	507.70010.3	8 OZ	UNIVERSAL ANIMAL ANTIDOTE	Activated Hardwood Charcoal Kaolin	120 MG/ML 60 MG/ML
NICH MARKETERS INC.	507.70020.3	300 ML	UNIVERSAL ANIMAL ANTIDOTE	Activated Hardwood Charcoal Kaolin	120 MG/ML 60 MG/ML
NICH MARKETERS INC.	507.70005.3	60 ML	UNIVERSAL ANIMAL ANTIDOTE W/SORBITOL	Activated Hardwood Charcoal Sorbitol Kaolin	120 MG/ML 100 MG/ML 60 MG/ML

ANTI-INFLAMMATORIES

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH	MEAT W/D	MILK W/H
AHC PRODUCTS, INC.	153.01010.3	1 LB	ANIPRIN F	Acetylsalicylic Acid	225,000 MG/LB		
AHC PRODUCTS, INC.	153.01015.3	2.5 LB	ANIPRIN F	Acetylsalicylic Acid	225,000 MG/LB		
AHC PRODUCTS, INC.	153.00069.3	5 LB	ANIPRIN F	Acetylsalicylic Acid	225,000 MG/LB		
PHOENIX	193.02868.3	50 CT	ASPIRIN BOLUS 240 GRAINS	Acetylsalicylic Acid	240 grains	4 days	36 hours
VEDCO	562.00800.3	50 CT	ASPIRIN BOLUS 240 GRAINS	Acetylsalicylic Acid	240 grains	4 days	36 hours
VEDCO	562.00802.3	50 CT	ASPIRIN BOLUS 480 GRAINS	Acetylsalicylic Acid	480 grains	4 days	36 hours
PHOENIX	193.02874.3	1 LB	ASPIRIN POWDER APPLE FLAVORED	Acetylsalicylic Acid	1 LB		
MERCK ANIMAL HEALTH	349.08000.3	100 ML	BANAMINE® INJECTABLE SOLUTION	Flunixin meglumine	50 MG/ML	4 days	36 hours
MERCK ANIMAL HEALTH	349.08100.3	250 ML	BANAMINE® INJECTABLE SOLUTION	Flunixin meglumine	50 MG/ML	4 days	36 hours
MERCK ANIMAL HEALTH	349.08110.3	100 ML	BANAMINE® TRANSDERMAL SOLUTION	Flunixin meglumine	50 MG/ML	8 days	
MERCK ANIMAL HEALTH	349.08115.3	250 ML	BANAMINE® TRANSDERMAL SOLUTION	Flunixin meglumine	50 MG/ML	8 days	

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ANTI-INFLAMMATORIES

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH	MEAT W/D	MILK W/H
MERCK ANIMAL HEALTH	349.08120.3	1000 ML	BANAMINE® TRANSDERMAL SOLUTION	Flunixin meglumine	50 MG/ML	8 days	
PHOENIX	193.13214.3	100 ML	DEXAMETHA- SONE INJECTION	Dexamethasone	2 MG/ML		
BIMEDA, INC.	193.20620.3	100 ML	FLUNAZINE® INJECTABLE	Flunixin meglumine	50 MG/ML	4 days	36 hours
BIMEDA, INC.	193.20621.3	250 ML	FLUNAZINE® INJECTABLE	Flunixin meglumine	50 MG/ML	4 days	36 hours
HUVEPHARMA, INC.	801.01330.3	100 ML	FLU-NIX™	Flunixin meglumine	50 MG/ML	4 days	36 hours
HUVEPHARMA, INC.	801.01335.3	250 ML	FLU-NIX™	Flunixin meglumine	50 MG/ML	4 days	36 hours

APPETITE STIMULANTS

MANUFACTURER	MVS#	SIZE	PRODUCT
HUVEPHARMA, INC.	801.09070.3	80 ML	RESPOND™ PASTE
HUVEPHARMA, INC.	801.09072.3	300 ML	RESPOND™ PASTE

BLOAT PREPARATIONS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS
SPARHAWK LABORATORIES, INC..	193.05580.3	12 OZ	BLOAT TREATMENT	Docusate sodium
ZOETIS, INC.	554.65080.3	2 OZ	THERABLOAT® DRENCH CONCENTRATE	Poloxalene

DIURETICS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH	MEAT W/D	MILK W/D
MERCK ANIMAL HEALTH	349.79000.3	50 ML	SALIX®	Furosemide	50 MG/ML	48 hours	48 hours

FLUID THERAPY (INJECTABLE AND/OR ISOTONIC SOLUTIONS)

MANUFACTURER	MVS#	SIZE	PRODUCT
Fluid therapy - bicarbonate			
NEOGEN CORPORATION	193.74050.3	100 ML	SODIUM BICARBONATE 8.4%
Fluid therapy - calcium (main ingredient)			
PHOENIX	193.07615.3	500 ML	CAL-PHOS #2 WITH POTASSIUM INJECTION
VEDCO	562.32015.2	500 ML	ULTIGIENE™ CALCIUM 23%
VEDCO	562.32017.2	500 ML	ULTIGIENE™ C.M.P.K.
Fluid therapy - dextrose (main ingredient)			
PHOENIX	193.13340.3	500 ML	DEXTROSE SOLUTION 50%
VEDCO	562.32000.3	500 ML	ULTIGIENE™ DEXTROSE 50%
Fluid therapy - LRS			
PHOENIX	193.43000.3	1000 ML	LACTATED RINGERS INJECTION
VEDCO	562.32003.3	1000 ML	ULTIGIENE™ LACTATED RINGERS



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MULTIMIN® 90 supports a well-designed oral feed program that follows NRC requirements and does not exceed the legal Se limit of 3mg per head per day.



SURE TRACE MINERAL SUPPLY BY TIMED INJECTION™

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www.multiminusa.com

R_x REQUIRED

KEEP OUT OF REACH OF CHILDREN

MULTIMIN® 90

An injectable aqueous supplemental source of zinc, manganese, selenium, and copper

CAUTION: FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.

ACTIVE SUBSTANCES PER ML:

Zinc.....	60 mg/mL
Manganese.....	10 mg/mL
Selenium.....	5 mg/mL
Copper.....	15 mg/mL

OTHER SUBSTANCES:

Chlorocresol 0.1% w/v (as preservative).

DOSAGE RECOMMENDATIONS:

CALVES: Up to 1 year.....	1 mL/per 100 lbs. bodyweight
CATTLE: From 1-2 years.....	1 mL/per 150 lbs. bodyweight
CATTLE: Over 2 years.....	1 mL/per 200 lbs. bodyweight

PRECAUTION:

Selenium and copper are toxic if administered in excess.

Always follow recommended label dose. Do not overdose.

It is recommended that accurate body weight is determined prior to treatment.

Do not use concurrently with other injectable selenium and copper products.

Do not use concurrently with selenium or copper boluses.

Do not use in emaciated cattle with a BCS of 1 in dairy or 1-3 in beef.

Consult your veterinarian.

CAUTION:

Slight local reaction may occur for about 30 seconds after injection. A slight swelling may be observed at injection site for a few days after administration. Use standard aseptic procedures during administration of injections to reduce the risk of injection site abscesses or lesions.

WITHDRAWAL PERIOD:

Meat 14 days. Milk zero withdrawal.

DIRECTIONS:

This product is only for use in cattle.

MULTIMIN® 90 is to be given subcutaneously (under the skin) ONLY.

It is recommended to administer the product in accordance with Beef Quality Assurance (BQA) guidelines. Minimum distance between injection sites for the MULTIMIN® 90 product and other injection sites should be at least 4 inches.

Inject under the loose skin of the middle of the side of the neck. Max volume per injection site is 7 mL.

Subcutaneous
injection in middle
of side of neck.



Store Between 15°C and 30°C
(59°F and 86°F).

SUPPLEMENTATION PROGRAM

BULLS	3 times per year
BEEF COWS	4 weeks before breeding 4 weeks before calving
DAIRY COWS	4 weeks before calving 4 weeks before insemination at dry-off
CALVES	at birth at 3 months and/or weaning
HEIFERS	every 3 months – especially 4 weeks before breeding

(program gives planned dates that can be varied to suit management programs)

DOSAGE TABLE

ANIMAL WEIGHT (lbs)	CALVES UP TO 1 YEAR 1 mL/100 lb BW	CATTLE 1 - 2 YEARS 1 mL/150 lb BW	CATTLE > 2 YEARS 1 mL/200 lb BW
50	0.5 mL	-	-
100	1 mL	-	-
150	1.5 mL	-	-
200	2 mL	-	-
300	3 mL	-	-
400	4 mL	-	-
500	5 mL	-	-
600	6 mL	-	-
700	7 mL	-	-
800	-	5.3 mL	-
900	-	6 mL	-
1000	-	6.6 mL	5 mL
1100	-	-	5.5 mL
1200	-	-	6 mL
1300	-	-	6.5 mL
1400	-	-	7 mL

Packaged in 100 mL & 500 mL size

NDC No. 49920-006-01
NDC No. 49920-006-05

TAKE TIME



OBSERVE LABEL
DIRECTIONS



MANUFACTURED FOR:
MULTIMIN®
NORTH AMERICA, INC.
Fort Collins, CO 80528





FLUID THERAPY (INJECTABLE AND/OR ISOTONIC SOLUTIONS)

MANUFACTURER	MVS#	SIZE	PRODUCT
Fluid therapy - NaCl			
PHOENIX	193.74504.3	1000 ML	SALINE SOLUTION 0.9% STERILE
PHOENIX	193.74500.3	250 ML	STERILE SALINE SOLUTION
PHOENIX	193.74504.3	1000 ML	STERILE SALINE SOLUTION
VEDCO	562.32200.3	1000 ML	ULTIGIENE™ HYPERTONIC SALINE SOLUTION 7.2%
VEDCO	562.32006.3	250 ML	ULTIGIENE™ NORMAL SALINE SOLUTION
VEDCO	562.32008.3	500 ML	ULTIGIENE™ NORMAL SALINE SOLUTION
VEDCO	562.32010.2	1000 ML	ULTIGIENE™ NORMAL SALINE SOLUTION
Oral electrolytes			
PHOENIX	193.02100.3	1000 ML	AMCALCILYTE FORTE ORAL SOLUTION
TECHMIX	693.03000.3	6 LB	BLUELITE® C
TECHMIX	693.03995.3	2 LB	BOVINE BLUELITE®
TECHMIX	693.04000.3	6 LB	BOVINE BLUELITE®
TECHMIX	693.04100.3	5 OZ	CALF RESTART™ ONE-4
TECHMIX	693.04105.3	25 LB	CALF RESTART™ ONE-4
BOEHRINGER INGELHEIM	090.24012.3	6.6 LB	DIAQUE™
BOEHRINGER INGELHEIM	090.24013.3	22 LB	DIAQUE™
ZOETIS, INC.	554.20070.3	178 GM	ENTROLYTE® H.E.
VETOQUINOL USA, INC.	733.08012.3	4 X 66 GM	EPIC® CALF ELECTROLYTE
VETOQUINOL USA, INC.	733.08014.3	5 LB	EPIC® CALF ELECTROLYTE
VETOQUINOL USA, INC.	733.08011.3	20 LB	EPIC® CALF ELECTROLYTE
PHOENIX	193.24550.3	1000 ML	GLUCO-AMINO-FORTE ORAL SOLUTION
HUVEPHARMA, INC.	730.00197.3	5.76 OZ	HYDRA-LYTE®
ZOETIS, INC.	554.59005.3	12 CT	RE-SORB®
ZOETIS, INC.	554.59010.3	72 CT	RE-SORB®
VETS PLUS, INC.	735.16000.3	3.5 OZ	REVITILYTE™
PARTNAR ANIMAL HEALTH	537.00015.3	6 X 75 GM	RESULTZ™



PHARMACEUTICALS

Immunostimulants | Laxatives | Sterile Water | Uterine Preparations

IMMUNOSTIMULANTS

MANUFACTURER	MVS#	SIZE	PRODUCT	MEAT W/D
NOVAVIVE	524.40000.3	5 DS	IMMUNOBOOST®	21 days
NOVAVIVE	524.40020.3	20 DS	IMMUNOBOOST®	21 days
ELANCO ANIMAL HEALTH	310.00010.1	10 DS	ZELNATE™ DNA IMMUNOSTIMULANT	21 days
ELANCO ANIMAL HEALTH	310.00015.1	50 DS	ZELNATE™ DNA IMMUNOSTIMULANT	21 days

LAXATIVES

MANUFACTURER	MVS#	SIZE	PRODUCT
PHOENIX	193.49602.3	GAL	MINERAL OIL LIGHT 95 VISCOSITY
FIRST PRIORITY, INC.	193.49600.3	GAL	MINERAL OIL 95 VISCOSITY

STERILE WATER

MANUFACTURER	MVS#	SIZE	PRODUCT
PHOENIX	193.74601.3	250 ML	STERILE WATER FOR INJECTION, USP
PHOENIX	193.74603.3	1000 ML	STERILE WATER FOR INJECTION, USP
VEDCO	562.32012.2	250 ML	ULTIGIENE™ STERILE WATER FOR INJECTION
VEDCO	562.32014.2	500 ML	ULTIGIENE™ STERILE WATER FOR INJECTION
VEDCO	562.32016.2	1000 ML	ULTIGIENE™ STERILE WATER FOR INJECTION

UTERINE PREPARATIONS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
FIRST PRIORITY, INC.	193.82800.3	50 CT	UTERINE BOLUS	Urea	13.4 GM/Bolus
VAN BEEK® NATURAL SCIENCE	712.80200.2	40 CT	ROYAL UTERINE CAPSULES™	Sodium lauryl sulfate and a proprietary blend of carvacrol and thymol	
VAN BEEK® NATURAL SCIENCE	712.80205.2	20 CT	ROYAL UTERINE CAPSULES™	Sodium lauryl sulfate and a proprietary blend of carvacrol and thymol	
VAN BEEK® NATURAL SCIENCE	712.80410.2	5.08 OZ	UTERFLUSH®	Yucca extract and a proprietary blend of carvacrol, cinnameldahyde and thymol	
VAN BEEK® NATURAL SCIENCE	712.80400.2	30 ML	UTERFLUSH®	Yucca extract and a proprietary blend of carvacrol, cinnameldahyde and thymol	



VITAMIN / MINERAL / SUPPLEMENT

MANUFACTURER	MVS#	SIZE	PRODUCT
Calcium supplement			
BOEHRINGER INGELHEIM	090.02000.3	4 CT	BOVIKALC®
BOEHRINGER INGELHEIM	090.02001.3	48 CT	BOVIKALC®
VETS PLUS, INC.	735.02000.3	300 ML	CAL-C-FRESH™
PRN PHARMACAL	193.27902.3	300 ML	CALCIUM GEL® HIGH POTENCY
HUVEPHARMA, INC.	801.00331.3	300 ML	CALCIUM GEL PLUS SELENIUM
HUVEPHARMA, INC.	801.00332.3	300 ML	CALCIUM GEL PLUS VITAMINS
VAN BEEK® NATURAL SCIENCE	712.80050.2	40 CT	CALCAPS®
JORGENSEN LABS., INC.	350.05900.3	447 GM	CAL-GEL™
PRN PHARMACAL	193.09904.3	50 CT	CMPK BOLUS SLOW RELEASE
VETS PLUS, INC.	735.03100.3	300 ML	CMPK GEL PLUS™
PRN PHARMACAL	193.09900.3	GAL	CMPK DRENCH PLUS™ HIGH POTENCY
TECHMIX	693.04700.3	2 LB	FRESH COW YMCP PLUS
TECHMIX	693.04800.3	25 LB	FRESH COW YMCP PLUS
TECHMIX	693.04810.3	40 LB	FRESH COW YMCP PLUS
PRN PHARMACAL	193.46500.3	300 ML	MAGNA GEL™
MAI ANIMAL HEALTH	474.37801.3	6 CT	TRANSITION™ CALCIUM BOLUS
MAI ANIMAL HEALTH	474.37805.3	96 CT	TRANSITION™ CALCIUM BOLUS
HUVEPHARMA, INC.	801.19800.3	6 CT	ULTRA CALC® PLUS BOLUS
TECHMIX	693.04825.3	48 CT	YMCP CAPSULES
TECHMIX	693.04830.3	375 GM	YMCP PASTE
Microorganism supplement			
VETS PLUS, INC.	735.14103.3	60 GM	PROBIOS® BOVINE ONE ORAL GEL FOR RUMINANTS
VETS PLUS, INC.	735.14104.3	300 GM	PROBIOS® BOVINE ONE ORAL GEL FOR RUMINANTS
VETS PLUS, INC.	735.14106.3	240 GM	PROBIOS® DISPERSIBLE POWDER
VETS PLUS, INC.	735.14107.3	5 LB	PROBIOS® DISPERSIBLE POWDER
VETS PLUS, INC.	735.14108.3	25 LB	PROBIOS® DISPERSIBLE POWDER
VETS PLUS, INC.	735.14110.3	5 LB	PROBIOS® FEED GRANULES
VETS PLUS, INC.	735.14111.3	50 LB	PROBIOS® FEED GRANULES
VETS PLUS, INC.	735.14101.3	1/4 OZ X 50 CT	PROBIOS® ORAL BOLUSES FOR RUMINANTS
VETS PLUS, INC.	735.14102.3	1/2 OZ X 50 CT	PROBIOS® ORAL BOLUSES FOR RUMINANTS
Multisupplement			
PHOENIX	193.02230.3	500 ML	AMINO ACID ORAL CONCENTRATE
PHOENIX	193.02232.3	500 ML	AMINO ACID ORAL SOLUTION
PHOENIX	193.02233.3	1000 ML	AMINO ACID ORAL SOLUTION
VAN BEEK® NATURAL SCIENCE	712.80100.2	20 CT	CALVIDROPS®
ZOETIS, INC.	275.06200.3	5 LB	CLOVITE® CONDITIONER
ZOETIS, INC.	275.06204.3	25 LB	CLOVITE® CONDITIONER
MULTIMIN USA, INC.	493.14000.3	100 ML	MULTIMIN® 90
MULTIMIN USA, INC.	493.14100.3	500 ML	MULTIMIN® 90
PRN PHARMACAL	193.27900.3	300 ML	PRN HI-ENERGY SUPPLEMENT™
VETS PLUS, INC.	735.16200.3	80 ML	REPLAMIN GEL
VETS PLUS, INC.	735.16205.3	300 ML	REPLAMIN GEL
VAN BEEK® NATURAL SCIENCE	712.80300.2	40 CT	RUMASTART®



PHARMACEUTICALS

Vitamin / Mineral / Supplement

VITAMIN / MINERAL / SUPPLEMENT

MANUFACTURER	MVS#	SIZE	PRODUCT
Multisupplement (Continued)			
TECHMIX	693.10105.3	25 CT	RUMEN YEAST CAPS PLUS
PRN PHARMACAL	193.74450.3	16 OZ	STAT®
Multi-supplement with microorganism			
HUVEPHARMA, INC.	801.00201.3	800 GM	ACHIEVE® PRO WITH CRYPTEX®
HUVEPHARMA, INC.	801.00206.3	4000 GM	ACHIEVE® PRO WITH CRYPTEX®
HUVEPHARMA, INC.	801.00211.3	8000 GM	ACHIEVE® PRO WITH CRYPTEX®
HUVEPHARMA, INC.	801.00216.3	60 GM	ACHIEVE® PRO WITH CRYPTEX®
VETS PLUS, INC.	735.13900.3	32 OZ	POWER PUNCH™
VETS PLUS, INC.	735.13905.3	GAL	POWER PUNCH™
VETS PLUS, INC.	735.14114.3	60 GM	PROBIOS® PLUS NATURAL E BOVINE ONE ORAL GEL
VETS PLUS, INC.	735.14115.3	300 GM	PROBIOS® PLUS NATURAL E BOVINE ONE ORAL GEL
HUVEPHARMA, INC.	801.09070.3	80 ML	RESPOND™ PASTE
HUVEPHARMA, INC.	801.09072.3	300 ML	RESPOND™ PASTE
PARTNAR ANIMAL HEALTH	537.00005.3	35 CT	REVIVE™ EXTRA BOLUS
PARTNAR ANIMAL HEALTH	537.00007.3	500 GM	REVIVE™ NEO FORMULA
PARTNAR ANIMAL HEALTH	537.00009.3	4.54 KG	REVIVE™ TMR
VETS PLUS, INC.	735.20012.3	28 CT	T.D.N. ROCKETS™
VETS PLUS, INC.	735.20013.3	200 CT	T.D.N. ROCKETS™
PHOENIX	193.86050.3	100 GM	VITA-LYTE
HUVEPHARMA, INC.	801.25000.3	4 OZ	VITAMINS & ELECTROLYTES "PLUS"
Niacin			
VETS PLUS, INC.	735.13700.3	20 CT	NIACIN BOLUS
Phosphorus			
NEOGEN CORPORATION	193.61570.3	100 ML	PHOS-AID SOLUTION 20%
Vitamin A,D			
SPARHAWK LABORATORIES, INC.	193.87101.3	250 ML	VITAMIN AD INJECTION
Vitamin A,D, and E			
VAN BEEK® NATURAL SCIENCE	712.80000.2	30 CT	BOVIDROPS®
VAN BEEK® NATURAL SCIENCE	712.80010.2	60 CT	BOVIDROPS®
VAN BEEK® NATURAL SCIENCE	712.80015.2	500 CT	BOVIDROPS®
NEOGEN CORPORATION	335.98000.3	250 ML	NATURAL E-AD
Vitamin B Complex			
NEOGEN CORPORATION	193.44100.3	100 ML	LIVER 7 INJECTION
NEOGEN CORPORATION	193.86210.3	100 ML	VITAMIN B COMPLEX 150
PHOENIX	193.86220.3	100 ML	VITAMIN B COMPLEX FORTIFIED
PHOENIX	193.86221.3	250 ML	VITAMIN B COMPLEX FORTIFIED
PHOENIX	193.86223.3	500 ML	VITAMIN B COMPLEX FORTIFIED

Category Continues >>



VITAMIN / MINERAL / SUPPLEMENT

MANUFACTURER	MVS#	SIZE	PRODUCT
Vitamin B1 (thiamine)			
PHOENIX	193.77600.3	200 MG X 100 ML	THIAMINE HYDROCHLORIDE INJECTION (200 MCG/ML)
PHOENIX	193.77601.3	500 MG X 100 ML	THIAMINE HYDROCHLORIDE INJECTION (500 MCG/ML)
Vitamin B12 (cyanocobalamin)			
PHOENIX	193.86260.3	100 ML	VITAMIN B12 INJECTION (1000 MCG/ML)
PHOENIX	193.86261.3	250 ML	VITAMIN B12 INJECTION (1000 MCG/ML)
PHOENIX	193.86262.3	500 ML	VITAMIN B12 INJECTION (1000 MCG/ML)
PHOENIX	193.86263.3	100 ML	VITAMIN B12 (3000 MCG/ML)
PHOENIX	193.86265.3	250 ML	VITAMIN B12 (3000 MCG/ML)
PHOENIX	193.86266.3	100 ML	VITAMIN B12 (5000 MCG/ML)
Vitamin C			
PHOENIX	193.86300.3	100 ML	VITAMIN C
PHOENIX	193.86301.3	250 ML	VITAMIN C
Vitamin E			
HUVEPHARMA, INC.	801.24500.3	250 ML	VITAMIN E - 300
Vitamin E + selenium			
MERCK ANIMAL HEALTH	349.08700.3	100 ML	BO-SE®
MERCK ANIMAL HEALTH	349.50000.3	100 ML	MU-SE®



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HORMONES & ANALOGS

Gonadotropins | FSH | Oxytocin | Progestins | Prostaglandins

HORMONES & ANALOGS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
Gonadotropins					
MERCK ANIMAL HEALTH	349.10450.3	5 X 10 ML	CHORULON®	Chorionic Gonadotropin	10,000 I.U.
BOEHRINGER INGELHEIM	465.28000.1	10 ML	CYSTORELIN®	Gonadorelin diacetate tetrahydrate	50 MCG/ML
BOEHRINGER INGELHEIM	465.28005.1	30 ML	CYSTORELIN®	Gonadorelin diacetate tetrahydrate	50 MCG/ML
BOEHRINGER INGELHEIM	465.28010.1	50 ML	CYSTORELIN®	Gonadorelin diacetate tetrahydrate	50 MCG/ML
BOEHRINGER INGELHEIM	465.28015.1	100 ML	CYSTORELIN®	Gonadorelin diacetate tetrahydrate	50 MCG/ML
ZOETIS, INC.	275.12010.3	20 ML	FACTREL®	Gonadorelin hydrochloride	50 MCG/ML
ZOETIS, INC.	275.12015.3	50 ML	FACTREL®	Gonadorelin hydrochloride	50 MCG/ML
MERCK ANIMAL HEALTH	349.22000.3	20 ML	FERTAGYL®	Gonadorelin acetate	43 MCG/ML
MERCK ANIMAL HEALTH	349.22005.3	100 ML	FERTAGYL®	Gonadorelin acetate	43 MCG/ML
PARNELL TECHNOLOGIES LTD.	536.20000.3	20 ML	GONABREED®	Gonadorelin acetate	100 MCG/ML
PARNELL TECHNOLOGIES LTD.	536.20010.3	100 ML	GONABREED®	Gonadorelin acetate	100 MCG/ML
FSH (Follicle Stimulating Hormone)					
VETOQUINOL USA, INC.	733.97019.3	20 ML	FOLLTROPIN®	Follicle Stimulating Hormone	35 IU/ML
Oxytocin					
BIMEDA, INC.	193.59751.3	100 ML	OXYTOCIN INJECTION	Purified Oxytocic Principle	20 USP/ML
Progestins					
ZOETIS, INC.	554.20040.3	10 CT	EAZI-BREED™ CIDR®	Progesterone	1.38 GM
Prostaglandins					
PARNELL TECHNOLOGIES LTD.	536.10000.3	20 ML	ESTROPLAN®	Cloprostenol sodium	250 MCG/ML
PARNELL TECHNOLOGIES LTD.	536.10010.3	100 ML	ESTROPLAN®	Cloprostenol sodium	250 MCG/ML
MERCK ANIMAL HEALTH	349.18000.3	20 ML	ESTRUMATE®	Cloprostenol sodium	250 MCG/ML
MERCK ANIMAL HEALTH	349.18020.3	100 ML	ESTRUMATE®	Cloprostenol sodium	250 MCG/ML
ZOETIS, INC.	555.13000.3	30 ML	LUTALYSE®	Dinoprost tromethamine	5 MG/ML
ZOETIS, INC.	555.13010.3	100 ML	LUTALYSE®	Dinoprost tromethamine	5 MG/ML
ZOETIS, INC.	555.13015.3	20 ML	LUTALYSE® HIGHCON	Dinoprost tromethamine	12.5 MG/ML
ZOETIS, INC.	555.13020.3	100 ML	LUTALYSE® HIGHCON	Dinoprost tromethamine	12.5 MG/ML
ZOETIS, INC.	555.13025.3	250 ML	LUTALYSE® HIGHCON	Dinoprost tromethamine	12.5 MG/ML
BOEHRINGER INGELHEIM	465.70300.3	100 ML	SYNCHSURE™	Cloprostenol sodium	250 MCG/ML

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MIDWEST EQUIPMENT



PREMISE DISINFECTANTS

MANUFACTURER	MVS#	SIZE	PRODUCT
VETOQUINOL USA, INC.	733.25000.3	GAL	16% DUAL-QUAT
VIROX TECHNOLOGIES, INC.	193.34100.3	GAL	INTERVENTION® CONCENTRATE
VIROX TECHNOLOGIES, INC.	193.34101.3	5 GAL	INTERVENTION® CONCENTRATE
VIROX TECHNOLOGIES, INC.	193.34103.3	55 GAL	INTERVENTION® CONCENTRATE
VIROX TECHNOLOGIES, INC.	193.34106.3	GAL	INTERVENTION® TB RTU
VIROX TECHNOLOGIES, INC.	193.34108.3	160 CT	INTERVENTION® TB WIPES 6" X 6.75"
VIROX TECHNOLOGIES, INC.	193.34109.3	160 CT	INTERVENTION® TB WIPES 11" X 12" BUCKET
VIROX TECHNOLOGIES, INC.	193.34110.3	160 CT	INTERVENTION® TB WIPES 11" X 12" BUCKET REFILL
BIO-TEK	801.15100.3	GAL	TEK-TROL™
VETOQUINOL USA, INC.	266.80000.3	10 LB	TRIFECTANT®
VETOQUINOL USA, INC.	266.80015.3	50 CT	TRIFECTANT® TABLETS



**VBI**

VET BRANDS INTERNATIONAL, INC.®

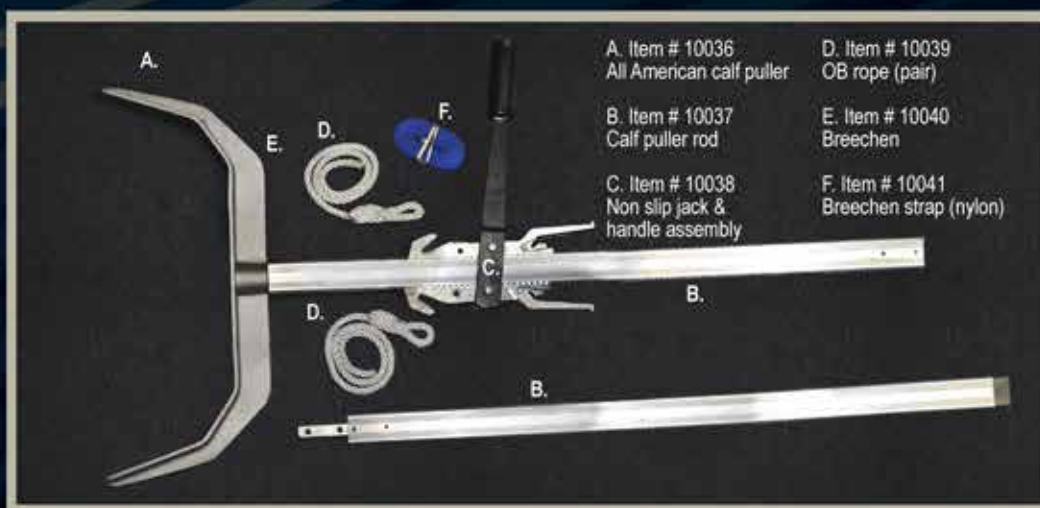
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"VBI's All American model calf puller is lightweight, gentle, strong and easy to use. Its ratchet action easily and steadily walks the calf out for a simple and safe delivery. The All American calf puller weighs only 16 lbs. and is manufactured from light weight aircraft aluminum. Its rectangular twin I-Beam construction makes it virtually unbendable.

Its one-handed quick release levers make it fast and easy to release, even under tension. Included with the All American calf puller are two OB Ropes, one adjustable nylon Breechen Strap, one Allen Wrench and two Set Screws."



Miramar Park of Commerce 10467 N. Commerce Parkway, Miramar, Florida 33025

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OB EQUIPMENT & SUPPLIES

Umbilical Tape & Clamps | Fetatomes | Calf Pullers | Calf Puller Cases | OB Chain Handles



UMBILICAL TAPE AND CLAMPS

MANUFACTURER	MVS#	PRODUCT
JORGENSEN LABORATORIES INC	350.00542.2	UMBILICAL TAPE 1/8" 20 YARDS J0025UA
JORGENSEN LABORATORIES INC	350.00544.2	UMBILICAL TAPE 3/8" 20 YARDS J0025UB
JORGENSEN LABORATORIES INC	350.00546.2	UMBILICAL TAPE 1/4" 20 YARDS J0025UC
JORGENSEN LABORATORIES INC	350.02840.2	UMBILICAL CLAMP DISPOSABLE EACH J0056
JORGENSEN LABORATORIES INC	350.02844.2	UMBILICAL CLAMP DISPOSABLE 50 CT J0056B

FETATOMES

MANUFACTURER	MVS#	PRODUCT
JORGENSEN LABORATORIES INC	350.00290.2	UTRECHT FETATOME W/COIL J0018US
JORGENSEN LABORATORIES INC	350.00305.2	THYGESEN FETATOME W/COIL J0018T

CALF PULLERS

MANUFACTURER	MVS#	PRODUCT
IDEAL	335.00010.2	CALF PULLER CALF EZE 3022
IDEAL	335.00020.2	CALF PULLER DR. FRANKS W/CASE 3002
IDEAL	335.00025.2	CALF PULLER DR. FRANKS 3003
JORGENSEN LABORATORIES INC	350.03600.2	CALF PULLER HERCULES J0099 (RATCHET STYLE)
JORGENSEN LABORATORIES INC	350.03604.2	CALF PULLER ECONOMY J0099E (RATCHET STYLE)
STONE MFG & SUPPLY COMPANY	665.00081.2	RATCH-A-PULL CALF PULLER W/CARRY BAG 33110
STONE MFG & SUPPLY COMPANY	665.00076.2	RATCH-A-PULL CALF PULLER 33100
STONE MFG & SUPPLY COMPANY	665.00072.2	CALF PULLER W/POWER PULL 33020 (COME-ALONG STYLE)
VET BRANDS INTERNATIONAL, INC.	728.30000.2	CALF PULLER ALL AMERICAN (RATCHET STYLE)

CALF PULLER CASES

MANUFACTURER	MVS#	PRODUCT
JORGENSEN LABORATORIES INC	350.03607.2	CALF PULLER CANVAS CARRY CASE J0099C
STONE MFG & SUPPLY COMPANY	665.00045.2	CALF PULLER CANVAS CARRY BAG 33108

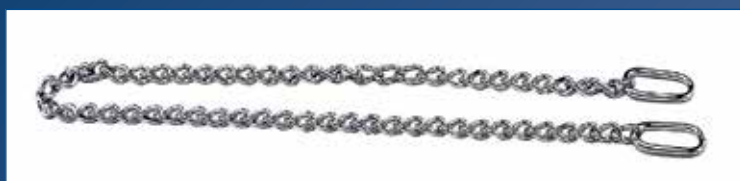
OB CHAIN HANDLES

MANUFACTURER	MVS#	PRODUCT
IDEAL	335.02200.2	OB CHAIN HANDLE ZINC PLATED W/POLY GRIP 3104
JORGENSEN LABORATORIES INC	350.00500.2	MOORES'S OB CHAIN HANDLE STAINLESS STEEL J0024W
JORGENSEN LABORATORIES INC	350.00503.2	OB CHAIN HANDLE PLASTIC LAMINATED GRIP J0024WM
JORGENSEN LABORATORIES INC	350.00530.2	T-BAR TYPE OB CHAIN HANDLE J0024T
STONE MFG & SUPPLY COMPANY	665.00058.2	OB CHAIN HANDLE NICKEL PLATED 10015



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OB EQUIPMENT & SUPPLIES

OB Chains | OB Straps & Ropes | OB Snares | OB Wire & Handles



OB CHAINS

MANUFACTURER	MVS#	PRODUCT
IDEAL	335.02206.2	OB CHAIN 60" ZINC PLATED 3101
JORGENSEN LABORATORIES INC	350.00460.2	OB CHAIN 30" STAINLESS STEEL J0024GS
JORGENSEN LABORATORIES INC	350.00470.2	OB CHAIN 60" STAINLESS STEEL J0024GL
JORGENSEN LABORATORIES INC	350.00505.2	OB CHAIN 30" PLATED J0024WS
JORGENSEN LABORATORIES INC	350.00501.2	OB CHAIN 45" PLATED J0024WH
JORGENSEN LABORATORIES INC	350.00502.2	OB CHAIN 60" PLATED J0024WL
NICH MARKETERS	507.46990.2	O.B. CHAIN (COATED RED) 30"
NICH MARKETERS	507.47000.2	O.B. CHAIN (COATED RED) 60"
STONE MFG & SUPPLY COMPANY	665.00019.2	LEG CATCH OB CHAIN 30" W/4.5" HOOK 33510
STONE MFG & SUPPLY COMPANY	665.00021.2	LEG CATCH OB CHAIN 30" W/8.5" HOOK 33500
STONE MFG & SUPPLY COMPANY	665.00060.2	OB CHAIN 30" NICKEL PLATED 10005
STONE MFG & SUPPLY COMPANY	665.00070.2	OB CHAIN 60" NICKEL PLATED 10010

OB STRAPS AND ROPES

MANUFACTURER	MVS#	PRODUCT
JORGENSEN LABORATORIES INC	350.00520.2	JORVET NYLON OB CALVING STRAP 60" J0024XL
VET BRANDS INTERNATIONAL, INC	728.30010.2	CALF PULLER OB ROPE PAIR

OB SNARES

MANUFACTURER	MVS#	PRODUCT
IDEAL	335.01900.2	SAVE A CALF SNARE 3108
JORGENSEN LABORATORIES INC	350.03608.2	CALF OB SNARE J0099S
JORGENSEN LABORATORIES INC	350.69022.2	HEAD HUNTER CALVING SNARE
WESTERN INSTRUMENT COMPANY	775.00080.2	OB SNARE BOVINE 25841

OB WIRE AND HANDLES

MANUFACTURER	MVS#	PRODUCT
IDEAL	335.02202.2	OB WIRE SAW HANDLE 1 PR 3116
JORGENSEN LABORATORIES INC	350.00240.2	OB SAW WIRE 11 YARDS J0018
JORGENSEN LABORATORIES INC	350.00260.2	HAUPTNER OB WIRE 10 METERS J0018H
JORGENSEN LABORATORIES INC	350.00330.2	OB WIRE GUIDE 7" J0020
JORGENSEN LABORATORIES INC	350.00340.2	OB WIRE DROP GUIDE J0020D
JORGENSEN LABORATORIES INC	350.00350.2	OB WIRE GUIDE HAUPTNER J0020H
JORGENSEN LABORATORIES INC	350.00360.2	SWEDISH OB WIRE HANDLE & CONTAINER J0021
JORGENSEN LABORATORIES INC	350.00370.2	OB WIRE HANDLE J0021H
JORGENSEN LABORATORIES INC	350.01820.2	WIRE/SUTURE CUTTER J0049C
JORGENSEN LABORATORIES INC	350.00380.2	LYSS OB WIRE HANDLE J0021L
JORGENSEN LABORATORIES INC	350.00390.2	SUTTER STYLE OB WIRE HANDLE J0021S

Squeeze Before You Dial **for the Proper Dose Everytime** with **VetArt** Vaccinators

When working with livestock we know how important proper dosing is for the animal and your pocket. Overdosing harms the health of the animal and costs the user extra money. Underdosing makes it impossible to reach the optimal result of the medicine. **VetArt™**'s 'Squeeze Before You Dial'- adjustment system prevents both situations. This unique, patent-holding system makes sure the dosage cannot be adjusted by accident during use.

VetArt™ Vaccinators have a unique, state of the art design. The vaccinators are user friendly, easy to squeeze and have any optimal view on the needle.

Designed to be used with small or large bottles. Easily switch from Bottle Mount to Tube Feed for more comfort and better ergonomics.

The applicators come with easy to replace springs and valves on both Bottle Mount and Tube Feed models.

UNIQUE MIDDLE BOTTLE MOUNT OPTION

The larger bottles can be positioned on top of the front handle for more comfort during injection or drenching.



SWITCH FROM BOTTLE MOUNT TO TUBE FEED

Easily switch from Bottle Mount Front to Tube Feed for larger bottles, more comfort and better ergonomics.



ADAPTERS FOR LUER-LOCK SYRINGE AND DRENCHER

Switch between Luer-Lock syringe and Drencher, one syringe, two functions.



UNIQUE DOSE ADJUSTMENT

Smart design for easy dose adjustment, to avoid adjustment during use and to have an accurate dose.



EASY TO REPLACE PARTS

Springs and valves are easily replaceable on both Bottle Mount and Tube Feed models.

EASY TO CLEAN

Valves can be disassembled for cleaning.



MEDICAL AND HIGH TEMPERATURE RESISTANT MATERIAL

Materials are compatible with chemicals, autoclavable, durable and almost unbreakable.


CAN BE
STERILIZED


AUTOCLAVE
RESISTANT



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OB EQUIPMENT & SUPPLIES

OB Lubes | Oral Feeders & Bottles | Calf Claimers | Calf Resuscitators



OB LUBES

MANUFACTURER	MVS#	PRODUCT
AURORA PHARMACEUTICAL, LLC	053.24080.3	PRO-TEC CHLORLUBE .1% 8 LB
BOEHRINGER INGELHEIM	090.70500.3	SEPTI LUBE GALLON
HR PHARMACEUTICALS, INC	001.38690.2	SURGILUBE STERILE SURGICAL LUBE 3 GM x 144 CT
HR PHARMACEUTICALS, INC	001.38691.2	SURGILUBE STERILE SURGICAL LUBE 2 OZ X 12 CT
HR PHARMACEUTICALS, INC	001.38694.2	SURGILUBE STERILE SURGICAL LUBE 4.25 OZ
HUVEPHARMA	801.02110.3	OB LUBE GALLON
JORGENSEN LABORATORIES INC	350.03730.2	J-LUBE OB LUBRICANT POWDER 10 OZ J0109
JORGENSEN LABORATORIES INC	350.03732.2	J-JELLY OB LUBE 8 OZ J0109F
JORGENSEN LABORATORIES INC	350.03734.2	J-JELLY OB LUBE GALLON J0109JB
PHOENIX	193.84300.3	VET LUBE GALLON
PRIORITY CARE	193.08860.3	CHLORHEXI-LUBE 8 LB
PRIORITY CARE	193.23850.3	PRIORITY CARE GENERAL LUBE W/PUMP 2 X 2 1/2 GALLON

ORAL FEEDERS AND BOTTLES

MANUFACTURER	MVS#	PRODUCT
JORGENSEN LABORATORIES INC	350.04505.2	ORAL CALF FEEDER SEMI-RIGID 3 PINT J0138C
JORGENSEN LABORATORIES INC	350.04506.2	ORAL CALF FEEDER GALLON J0138G
JORGENSEN LABORATORIES INC	350.04524.2	ORAL CALF DRENCHER 2.5 LITER J0138
JORGENSEN LABORATORIES INC	350.04824.2	ENEMA ORAL CALF FEEDER BAG 3 LITER J0139
MAI GENESIS	474.60450.3	ORAL CALF FEEDER WITH ZIPLOCK 2.5 LITER
RHINEHART DEVELOPMENT	588.01510.2	ORAL CALF FEEDER 2.5 LITER
SPRINGER MAGRATH COMPANY	474.52058.3	MAGRATH NIPPLE FLUID FEEDER 101NFF 2 QT
SPRINGER MAGRATH COMPANY	474.52060.3	MAGRATH CALF FEEDER 50PLFF 2 QT
SPRINGER MAGRATH COMPANY	474.52061.3	MAGRATH PLASTIC FEEDER GALLON 50PLGLFF 2 QT
SPRINGER MAGRATH COMPANY	474.52063.3	MAGRATH CALF FEEDER W/SS PROBE GALLON 50SSGLFF 2 QT

CALF CLAIMERS

MANUFACTURER	MVS#	PRODUCT
SPRINGER MAGRATH COMPANY	474.52069.3	MAGRATH O-NO-MO CALF CLAIMER POWDER 9 OZ

CALF RESUSCITATORS

MANUFACTURER	MVS#	PRODUCT
MAI GENESIS	474.72200.2	MCCULLOCH CALF RESUSCITATOR
STONE MFG & SUPPLY COMPANY	665.00078.2	STONE CALF SAVER

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MIDWEST BOVINE



CHARTS

UNITS OF VOLUME		
1 Ounce	= 29.57 Milliliters	
1 Pint	= 16 Fluid Ounces	= 473.17 Milliliters
1 Quart	= 32 Fluid Ounces	= 0.94563 Liter
1 Gallon	= 128 Fluid Ounces	= 3.7853 Liters
1/4 Liter	= 8 1/2 Fluid Ounces	
1/2 Liter	= 1 Pint, 1 Fluid Ounce	
1 Liter	= 1 Quart, 2 Fluid Ounces	
4 Liters	= 1 Gallon, 7 Fluid Ounces	
1 Teaspoon	= 4.92 Milliliters	
1 Tablespoon	= 3 Teaspoons = 0.5 Fluid Ounce	= 14.78 Milliliters
1/4 Cup	= 4 Tablespoons = 2 Fluid Ounces	= 59.14 Milliliters
1/2 Cup	= 4 Fluid Ounces	= 118.29 Milliliters
1 Cup	= 8 Fluid Ounces	= 236.59 Milliliters
When You Know	Multiply By	To Find
Fluid Ounces	29.57	Milliliters
Pints	0.47	Liters
Quarts	0.95	Liters

NEEDLE SELECTION		
	GAUGE	LENGTH
Poultry	22	3/8" to 1/2"
Baby Pigs (IM)	20	1/2"
Nursery (IM)	18 or 20	3/4"
Nursery (SUBQ)	18 or 20	1/2"
Grower/Finish (IM)	18	1"
Grower (IM)	18	3/4"
Sows/Boars (SUBQ)	16 or 18	1" or 1-1/2"
Sows/Boars (IM)	16 or 18	1"
Cattle (IM)	16 or 18	1/2" or 1-1/2"
Sheep/Goats	20 or 22	1/2" or 1"
Horses	18 or 20	1"

Needle Selection:

Needles are measured in 2 ways: Length & Gauge (diameter). When determining the correct gauge, remember the higher the number, the smaller the diameter. Example: an 18 gauge needle is smaller than a 16 gauge needle.

- **IM - Intermuscular (Neck area)**
- **SUBQ - Subcutaneous (Neck area preferred method)**
- **IV - Intravenous (Professional route; results faster blood level)**

UNITS OF WEIGHT		
1 Ounce		= 28.3495 Grams
1 Pound	= 16 Ounces	= 453.5924 Grams
When You Know	Multiply By	To Find
Ounces	28.0	Grams
Pounds	0.45	Kilograms
Tons	0.9	Metric Tons
Grams	0.035	Ounces
Kilograms	2.2	Pounds
Metric Tons	1.1	Tons

METRIC WEIGHTS & MEASUREMENTS	
1 Kilogram	= 1,000.0 Grams
1 Hectogram	= 100.0 Grams
1 Dekagram	= 10.0 Grams
1 Decigram	= 0.1 Gram
1 Centigram	= 0.01 Gram
1 Milligram	= 0.001 Gram
1 Microgram (Gamma)	= 0.000001 Gram

TORPAC		
CAPSULE SIZE	VOLUME (ml)	VOLUME (oz.)
13	3	1/8
12	5	1/4
12EL	7.5	3/8
11	10	1/2
10	18	1
7	24	1 1/2
SU07	28	1 3/4

CONVERSIONS		
WHEN YOU KNOW	MULTIPLY BY	TO GET
Grains	64.799	Milligrams
Ounces: Dry	28.35	Grams
Pounds: Dry	0.4535924	Kilograms
Grams/Ton	1.1	Parts/Million
Milligrams/Ton	2	Grams/Ton
Grams/Ton	0.5	Milligrams/Pound
Grams/Pound	2,000	Grams/Ton
Grams/Ton	0.0005	Grams/Pound
Grams/Ton	0.0022	Pounds/Ton
Pounds/Ton	453.5924	Grams/Ton
Ounces: Fluid	29.57	Cubic Centimeters
Cubic Centimeters	0.034	Ounces: Fluid
Quarts	0.946	Liters
Liters	1.057	Quarts

HOUSEHOLD MEASURES	
1 Teaspoon	= 4cc.
1 Teaspoon	= 3 Grams of Powder
1 Ounce	= 28.35 Grams
3 Teaspoons	= 1 Tablespoon
2 Tablespoons	= 1 Ounce
1/4 Cup	= 2 Ounces
1/2 Cup	= 4 Ounces
128 Ounces	= 1 Gallon

Family and Employee owned since 1961



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