

2020

# BOVINE

MIDWEST  
BOVINE





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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 over 59 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**



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# MIDWEST BOVINE



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(tiludiprosin)

**safe-guard**  
(torbomisuozole)

**Vista**

**RALGRO**  
(zeranol)

**Resflor**  
(resflorin)

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



**STITCH SCISSORS**

Autoclavable and fashioned with medical grade stainless steel. The sharp edge provides a clean cut while the serrated edge prevents any slipping. These scissors have a small hook shaped tip on the bottom blade that slides underneath sutures effortlessly, allowing the user to lift and hold the suture for easier cutting and removal.



**SURGICAL SCISSORS**

Autoclavable and fashioned with medical grade stainless steel. The top sharp edge provides a clean cut with minimal tissue damage, while the bottom serrated edge prevents any tissue from slipping. These scissors offer superb control and reduction of hand fatigue.



**COTTON ROLL**

Made from 11lb non-surgical bleached cotton, these soft and absorbent cotton rolls are autoclavable, non-sterile and ideal use for padding.



**GAUZE SPONGES**

Premium 100% cotton, non-sterile. Used for general cleaning, wound dressing, prepping packing and debriding wounds.



**NON-WOVEN GAUZE SPONGES**

Non-sterile, 100% cotton.



**SURGICAL TOWELS**

Loomed to provide maximum absorbency and made from 100% long-staple cotton.



**SURGICAL DRAPES**

Features built-in moisture barrier. Air-tight double central panel prevents contaminants from permeating procedure area. 50/50 blend of long-staple cotton and polyester.



**COHESIVE WRAP**

Easy hand tear, easily removed, non-stick on fur that is made of breathable construction and water resistant. Available in 4" and 2"



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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.....5 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  
Up to 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.

### DIRECTIONS:

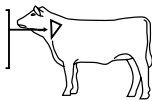
This product is only for use in cattle.

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

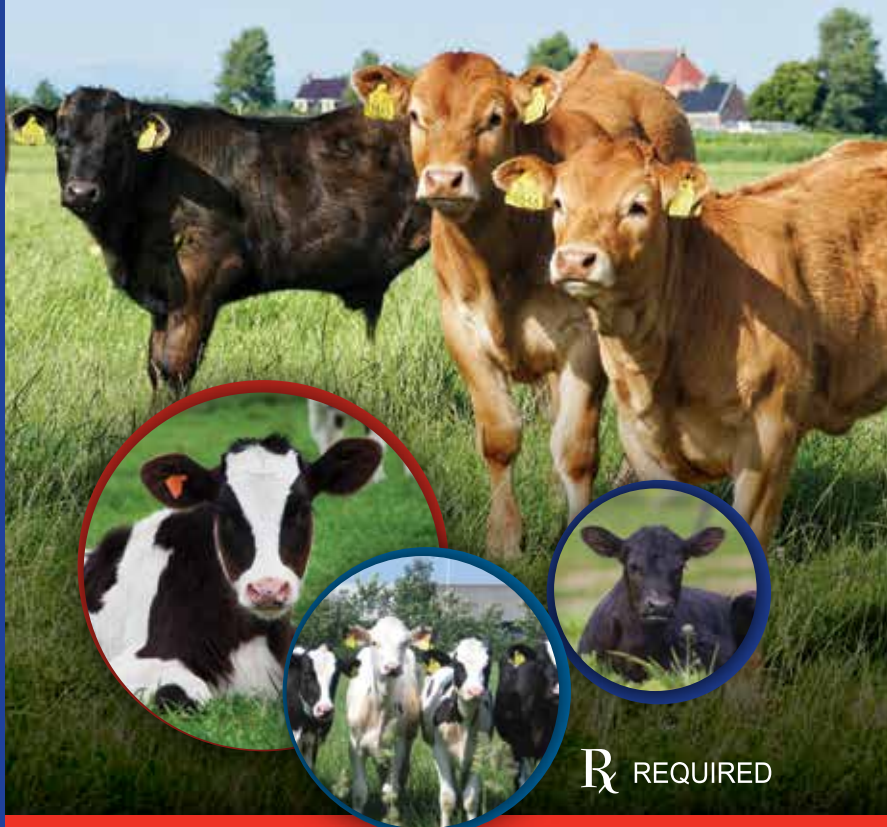
Packaged in 100 mL & 500 mL size

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



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**Don't Compromise Calf Value – Inject MULTIMIN® 90 at critical times during calf development to support health, growth, and proper response to vaccines.**



Rx REQUIRED



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Good protection is about what you don't see.

**Vaccines proven to cause fewer reactions<sup>1-5</sup> can help you see healthier cattle and higher profits.**

With vaccines that won't disrupt productivity, you're going to like what you see. Just one more way Merck Animal Health works for you.

**Vista**

**Vision**

**Guardian**

**Once PMH**

*Cavalry 9*

See how fewer reactions can help your herd at [the-best-defense.com](http://the-best-defense.com).

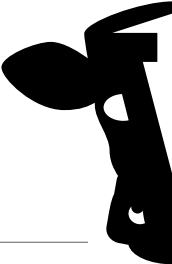


1. Effects of Vaccination with Vista® 5 L5 SQ or Bovi-Shield GOLD® FP® L5 on Milk Production. 2010.
2. Technical Reference 96-4: Evaluation of Injection-Site Blemishes Using Ultrasonography Following Administration of Two Commercial Multivalent Clostridial Vaccines.
3. Merck Veterinary Update: Post-Vaccinal Milk Response in Dairy Cows to Three Vaccines for the Control of Neonatal Diarrhea. 2007.
4. Spire MF Once PMH® IN Endotoxin Load. 2015.
5. Field Safety Study of a Low-Reactive Clostridium Chauvoei-Septicum-Haemolytica-Novyi-Sordellii-Tetani-Perfringes Types C&D Bacterin-Toxoid (Cavalry 9). APHIS Product Code No. 7340.00. 2005

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 **MERCK**  
Animal Health





**RESPIRATORY & REPRODUCTIVE VACCINES**

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>BVD I &amp; II</b>			
ZOETIS, INC	554.11180.1	10 DS	<b>BOVI-SHIELD GOLD® BVD</b>
ZOETIS, INC	554.11183.1	50 DS	<b>BOVI-SHIELD GOLD® BVD</b>
<b>BVD I &amp; II-M. Haemolytica</b>			
ZOETIS, INC	554.50065.1	10 DS	<b>ONE SHOT® BVD</b>
ZOETIS, INC	554.50067.1	50 DS	<b>ONE SHOT® BVD</b>
<b>Haemophilus Somnus Bacterin</b>			
ELANCO ANIMAL HEALTH	296.05660.1	50 DS	<b>SOMNU SHIELD®</b>
ZOETIS, INC	554.62210.1	10 DS	<b>SOMUBAC®</b>
ZOETIS, INC	554.62215.1	50 DS	<b>SOMUBAC®</b>
<b>Haemophilus Somnus-M. Haemolytica-P. Multocida Bacterin</b>			
BOEHRINGER INGELHEIM	090.10050.1	10 DS	<b>BAR SOMNUS 2P™</b>
BOEHRINGER INGELHEIM	090.10060.1	50 DS	<b>BAR SOMNUS 2P™</b>
<b>IBR</b>			
BOEHRINGER INGELHEIM	090.34600.1	50 DS	<b>EXPRESS® I</b>
BOEHRINGER INGELHEIM	090.62265.1	50 DS	<b>PYRAMID® IBR</b>
ELANCO ANIMAL HEALTH	406.85000.1	10 DS	<b>TITANIUM® IBR</b>
ELANCO ANIMAL HEALTH	406.85010.1	50 DS	<b>TITANIUM® IBR</b>
ZOETIS, INC	554.11170.1	50 DS	<b>BOVI-SHIELD® IBR</b>
<b>IBR-BVD I &amp; II</b>			
BOEHRINGER INGELHEIM	090.34680.1	50 DS	<b>EXPRESS® 3</b>
BOEHRINGER INGELHEIM	090.62215.1	50 DS	<b>PYRAMID® 3</b>
ELANCO ANIMAL HEALTH	406.85025.1	10 DS	<b>TITANIUM® 3</b>
ELANCO ANIMAL HEALTH	406.85030.1	50 DS	<b>TITANIUM® 3</b>
ZOETIS, INC	554.11175.1	10 DS	<b>BOVI-SHIELD GOLD® IBR-BVD</b>
ZOETIS, INC	554.11150.1	50 DS	<b>BOVI-SHIELD GOLD® IBR-BVD</b>
<b>IBR-BVD I &amp; II-BRSV-PI3</b>			
BOEHRINGER INGELHEIM	090.13020.1	10 DS	<b>EXPRESS® FP 5</b>
BOEHRINGER INGELHEIM	090.13025.1	50 DS	<b>EXPRESS® FP 5</b>
BOEHRINGER INGELHEIM	090.36000.1	10 DS	<b>EXPRESS® 5</b>
BOEHRINGER INGELHEIM	090.36020.1	50 DS	<b>EXPRESS® 5</b>
BOEHRINGER INGELHEIM	090.62140.1	10 DS	<b>PRISM™ 5</b>
BOEHRINGER INGELHEIM	090.62150.1	50 DS	<b>PRISM™ 5</b>
BOEHRINGER INGELHEIM	090.62245.1	10 DS	<b>PYRAMID® 5</b>
BOEHRINGER INGELHEIM	090.62250.1	50 DS	<b>PYRAMID® 5</b>
BOEHRINGER INGELHEIM	090.54035.1	10 DS	<b>TRIANGLE® 5</b>
BOEHRINGER INGELHEIM	090.54040.1	50 DS	<b>TRIANGLE® 5</b>
ELANCO ANIMAL HEALTH	406.85045.1	10 DS	<b>TITANIUM® 5</b>
ELANCO ANIMAL HEALTH	406.85050.1	50 DS	<b>TITANIUM® 5</b>
ELANCO ANIMAL HEALTH	296.05730.1	10 DS	<b>VIRA SHIELD® 6</b>
ELANCO ANIMAL HEALTH	296.05731.1	50 DS	<b>VIRA SHIELD® 6</b>
MERCK ANIMAL HEALTH	349.93100.1	10 DS	<b>VISTA® 5 SQ</b>
MERCK ANIMAL HEALTH	349.93120.1	50 DS	<b>VISTA® 5 SQ</b>
ZOETIS, INC	554.11070.1	10 DS	<b>BOVI-SHIELD GOLD® FP® 5</b>
ZOETIS, INC	554.11075.1	50 DS	<b>BOVI-SHIELD GOLD® FP® 5</b>

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Our large animal online store platform allows your producers to easily order anytime, even outside of business hours.



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spent stocking product and filling orders.



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interface for easy ordering and prescription approvals.



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Cows receiving Vira Shield<sup>®</sup> had 6.5% higher first-service conception rates vs. cows treated with a modified-live vaccine.<sup>1</sup>

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](http://virashield.com).**

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

<sup>1</sup>Perry 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
<b>IBR-BVD I &amp; II-BRSV-PI3 (Continued)</b>			
ZOETIS, INC	554.11055.1	5 DS	<b>BOVI-SHIELD GOLD® 5</b>
ZOETIS, INC	554.11045.1	10 DS	<b>BOVI-SHIELD GOLD® 5</b>
ZOETIS, INC	554.11050.1	50 DS	<b>BOVI-SHIELD GOLD® 5</b>
ZOETIS, INC	554.14080.1	5 DS	<b>CATTLEMASTER® GOLD FP® 5</b>
ZOETIS, INC	554.14085.1	10 DS	<b>CATTLEMASTER® GOLD FP® 5</b>
ZOETIS, INC	554.14090.1	25 DS	<b>CATTLEMASTER® GOLD FP® 5</b>
<b>IBR-BVD I &amp; II-BRSV-PI3-Haemophilus somnus</b>			
BOEHRINGER INGELHEIM	090.36100.1	10 DS	<b>EXPRESS® 5 - HS</b>
BOEHRINGER INGELHEIM	090.36120.1	50 DS	<b>EXPRESS® 5 - HS</b>
ELANCO ANIMAL HEALTH	296.05732.1	10 DS	<b>VIRA SHIELD® 6 + SOMNUS</b>
ELANCO ANIMAL HEALTH	296.05733.1	50 DS	<b>VIRA SHIELD® 6 + SOMNUS</b>
<b>IBR-BVD I &amp; II-BRSV-PI3-Lepto 5 way</b>			
BOEHRINGER INGELHEIM	090.37150.1	5 DS	<b>EXPRESS® FP 10</b>
BOEHRINGER INGELHEIM	090.37155.1	10 DS	<b>EXPRESS® FP 10</b>
BOEHRINGER INGELHEIM	090.37160.1	50 DS	<b>EXPRESS® FP 10</b>
BOEHRINGER INGELHEIM	090.62200.1	10 DS	<b>PYRAMID® 10</b>
BOEHRINGER INGELHEIM	090.62205.1	50 DS	<b>PYRAMID® 10</b>
ELANCO ANIMAL HEALTH	296.05729.1	10 DS	<b>VIRA SHIELD® 6 + L5</b>
ELANCO ANIMAL HEALTH	296.05735.1	50 DS	<b>VIRA SHIELD® 6 + L5</b>
MERCK ANIMAL HEALTH	349.93000.1	5 DS	<b>VISTA® 5 L5 SQ</b>
MERCK ANIMAL HEALTH	349.93020.1	10 DS	<b>VISTA® 5 L5 SQ</b>
MERCK ANIMAL HEALTH	349.93040.1	50 DS	<b>VISTA® 5 L5 SQ</b>
ZOETIS, INC	554.11095.1	5 DS	<b>BOVI-SHIELD GOLD® FP® 5 L5</b>
ZOETIS, INC	554.11085.1	10 DS	<b>BOVI-SHIELD GOLD® FP® 5 L5</b>
ZOETIS, INC	554.11090.1	50 DS	<b>BOVI-SHIELD GOLD® FP® 5 L5</b>
ZOETIS, INC	554.14105.1	5 DS	<b>CATTLEMASTER® GOLD FP® 5 L5</b>
ZOETIS, INC	554.14110.1	10 DS	<b>CATTLEMASTER® GOLD FP® 5 L5</b>
ZOETIS, INC	554.14115.1	25 DS	<b>CATTLEMASTER® GOLD FP® 5 L5</b>
<b>IBR-BVD I &amp; II-BRSV-PI3-Lepto 5 way+Hardjo-bovis</b>			
BOEHRINGER INGELHEIM	090.54065.1	10 DS	<b>TRIANGLE® 10 HB</b>
BOEHRINGER INGELHEIM	090.54070.1	50 DS	<b>TRIANGLE® 10 HB</b>
ELANCO ANIMAL HEALTH	406.65000.1	10 DS	<b>MASTER GUARD® 10 HB</b>
ELANCO ANIMAL HEALTH	406.65010.1	25 DS	<b>MASTER GUARD® 10 HB</b>
ELANCO ANIMAL HEALTH	406.85065.1	50 DS	<b>TITANIUM® 5 L5 HB</b>
ELANCO ANIMAL HEALTH	296.05743.1	10 DS	<b>VIRA SHIELD® 6 + L5 HB</b>
ELANCO ANIMAL HEALTH	296.05744.1	50 DS	<b>VIRA SHIELD® 6 + L5 HB</b>
ZOETIS, INC	554.11098.1	5 DS	<b>BOVI-SHIELD GOLD® FP® 5 L5 HB</b>
ZOETIS, INC	554.11096.1	10 DS	<b>BOVI-SHIELD GOLD® FP® 5 L5 HB</b>
ZOETIS, INC	554.11097.1	50 DS	<b>BOVI-SHIELD GOLD® FP® 5 L5 HB</b>
<b>IBR-BVD I &amp; II-BRSV-PI3-Lepto 5 way+Hardjo-bovis-Haemophilus somnus</b>			
ELANCO ANIMAL HEALTH	296.05746.1	50 DS	<b>VIRA SHIELD® 6 + L5 HB SOMNUS</b>

A large, intricately constructed wooden Trojan horse stands on a wooden cart with large spoked wheels in a grassy field. A rope is attached to its nose. In the background, several real cows are grazing in a field under a cloudy sky.

**BOVI-SHIELD GOLD**  
**ONE SHOT®**

**IS YOUR VACCINE  
HIDING SOMETHING?**

The last thing you want is something sneaking into your herd. BOVI-SHIELD GOLD ONE SHOT® is the only combination vaccine that prevents three important BRD conditions while also providing protection against *Mannheimia haemolytica*. That's something Pyramid® 5 + Presponse® SQ and Vista® Once SQ can't claim. So use BOVI-SHIELD GOLD ONE SHOT and get complete calf protection that's both convenient and uncompromised.

**Contact your Zoetis representative or visit [UncompromisedProtection.com](http://UncompromisedProtection.com) to save yourself a herd of problems.**

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(flunixin meglumine)

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## **ENROMED**<sup>™</sup> 100 (enrofloxacin)

Treatment and control of bovine respiratory disease (BRD) in a convenient single-dose.

- Ready-to-use
- No refrigeration required
- FDA-approved

Visit [BimedaUS.com](http://BimedaUS.com) for more information.



**Better control pyrexia associated with bovine respiratory disease, endotoxemia and acute bovine mastitis in cattle.**

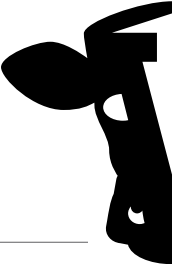
- ✓ **Effective analgesic activity**  
Fast, long lasting relief from pain and inflammation
- ✓ **Potent formula**  
More pain relief than pentazocine, meperidine and codeine
- ✓ **Safe, FDA-approved treatment**  
Non-narcotic and non-steroidal



Animals intended for human consumption must not be slaughtered within 28 days from the last treatment. This product is not approved for 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 this product in pre-ruminating calves. Do not use in calves to be processed for veal. EnroMed<sup>™</sup> 100 is a trademark of Bimeda, Inc. All rights reserved. © 2019 Bimeda, Inc. 10/19 M-19-0067

Please visit [BimedaUS.com](http://BimedaUS.com) for full product information.

CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian. Cattle must not be slaughtered for human consumption within 4 days of the last treatment. Milk that has been taken during treatment and for 36 hours after the last treatment must not be used for food. Not for use in dry dairy cows. A withdrawal period has not been established for this product in preruminating calves. Do not use in calves to be processed for veal. Flunazine<sup>®</sup> is a registered trademark of Bimeda, Inc. All rights reserved. © 2019 Bimeda, Inc. 12/19 M-19-0086



**RESPIRATORY & REPRODUCTIVE VACCINES**

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>IBR-BVD I &amp; II-BRSV-PI3-M. Haemolytica</b>			
BOEHRINGER INGELHEIM	090.62255.1	10 DS	<b>PYRAMID® 5 + PRESPONSE® SQ</b>
BOEHRINGER INGELHEIM	090.62260.1	50 DS	<b>PYRAMID® 5 + PRESPONSE® SQ</b>
ZOETIS, INC	554.11190.1	5 DS	<b>BOVI-SHIELD GOLD ONE SHOT™</b>
ZOETIS, INC	554.11192.1	10 DS	<b>BOVI-SHIELD GOLD ONE SHOT™</b>
ZOETIS, INC	554.11194.1	50 DS	<b>BOVI-SHIELD GOLD ONE SHOT™</b>
<b>IBR-BVD I &amp; II-BRSV-PI3-M. Haemolytica-P. Multocida</b>			
MERCK ANIMAL HEALTH	349.93300.1	10 DS	<b>VISTA® ONCE SQ</b>
MERCK ANIMAL HEALTH	349.93320.1	50 DS	<b>VISTA® ONCE SQ</b>
<b>IBR-BVD I &amp; II-BRSV-PI3-Vibrio-Lepto 5 way</b>			
BOEHRINGER INGELHEIM	090.36050.1	10 DS	<b>EXPRESS® FP 5 - VL5</b>
BOEHRINGER INGELHEIM	090.36055.1	50 DS	<b>EXPRESS® FP 5 - VL5</b>
ELANCO ANIMAL HEALTH	296.05727.1	10 DS	<b>VIRA SHIELD® 6 + VL5</b>
ELANCO ANIMAL HEALTH	296.05728.1	50 DS	<b>VIRA SHIELD® 6 + VL5</b>
MERCK ANIMAL HEALTH	349.93200.1	10 DS	<b>VISTA® 5 VL5 SQ</b>
MERCK ANIMAL HEALTH	349.93220.1	50 DS	<b>VISTA® 5 VL5 SQ</b>
ZOETIS, INC	554.11110.1	10 DS	<b>BOVI-SHIELD GOLD® FP® 5 VL5</b>
ZOETIS, INC	554.11115.1	50 DS	<b>BOVI-SHIELD GOLD® FP® 5 VL5</b>
<b>IBR-BVD I &amp; II-BRSV-PI3-Vibrio-Lepto 5 way-Haemophilus somnus</b>			
ELANCO ANIMAL HEALTH	296.05740.1	10 DS	<b>VIRA SHIELD® 6 + VL5 SOMNUS</b>
ELANCO ANIMAL HEALTH	296.05742.1	50 DS	<b>VIRA SHIELD® 6 + VL5 SOMNUS</b>
<b>IBR-BVD I &amp; II-BRSV-PI3-Vibrio-Lepto 5 way-Hardjo-bovis</b>			
ELANCO ANIMAL HEALTH	296.05751.1	10 DS	<b>VIRA SHIELD® 6 + VL5 HB</b>
ELANCO ANIMAL HEALTH	296.05752.1	50 DS	<b>VIRA SHIELD® 6 + VL5 HB</b>
ZOETIS, INC	554.11116.1	10 DS	<b>BOVI-SHIELD GOLD® FP® 5 VL5 HB</b>
ZOETIS, INC	554.11117.1	50 DS	<b>BOVI-SHIELD GOLD® FP® 5 VL5 HB</b>
<b>IBR-BVD I &amp; II-BRSV-PI3-Vibrio-Lepto 5 way-Hardjo-bovis-Haemophilus somnus</b>			
ELANCO ANIMAL HEALTH	296.05753.1	10 DS	<b>VIRA SHIELD® 6 + VL5 HB SOMNUS</b>
ELANCO ANIMAL HEALTH	296.05754.1	50 DS	<b>VIRA SHIELD® 6 + VL5 HB SOMNUS</b>
<b>IBR-BVD I &amp; II-Lepto P</b>			
ELANCO ANIMAL HEALTH	406.85035.1	50 DS	<b>TITANIUM 3® LP</b>
<b>IBR-BVD I &amp; II-Lepto P-Hardjo</b>			
BOEHRINGER INGELHEIM	090.62220.1	50 DS	<b>PYRAMID® 3 LPH</b>
<b>IBR-BVD I &amp; II-M. Haemolytica</b>			
BOEHRINGER INGELHEIM	090.62224.1	50 DS	<b>PYRAMID® 3 + PRESPONSE® SQ</b>
<b>IBR-BVD I &amp; II-PI3</b>			
ZOETIS, INC	554.11040.1	50 DS	<b>BOVI-SHIELD GOLD® 4</b>
<b>IBR-BVD I &amp; II-PI3-Lepto 5 way</b>			
ELANCO ANIMAL HEALTH	406.85040.1	50 DS	<b>TITANIUM® 4 L5</b>
<b>IBR-BVD I &amp; II-PI3-Vibrio-Lepto 5 way</b>			
ZOETIS, INC	554.53070.1	10 DS	<b>PREGGUARD® GOLD FP® 10</b>
ZOETIS, INC	554.53075.1	50 DS	<b>PREGGUARD® GOLD FP® 10</b>
<b>IBR-BVD I &amp; II-Vibrio-Lepto 5 way</b>			
BOEHRINGER INGELHEIM	090.34700.1	10 DS	<b>EXPRESS® FP 3 - VL5</b>
BOEHRINGER INGELHEIM	090.34725.1	50 DS	<b>EXPRESS® FP 3 - VL5</b>
ELANCO ANIMAL HEALTH	296.05465.1	50 DS	<b>VIRA SHIELD® 4 + VL5</b>



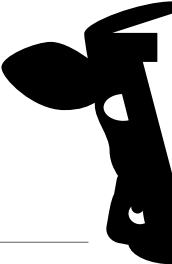
## BIOLOGICALS

Respiratory & Reproductive Vaccines

### RESPIRATORY & REPRODUCTIVE VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>IBR-BVD I &amp; II-Vibrio-Lepto 5 way (Continued)</b>			
MERCK ANIMAL HEALTH	349.92900.1	10 DS	VISTA® 3 VL5 SQ
MERCK ANIMAL HEALTH	349.92920.1	50 DS	VISTA® 3 VL5 SQ
<b>IBR-BVD I &amp; II-Vibrio-Lepto 5 way-Hardjo-bovis</b>			
ELANCO ANIMAL HEALTH	296.05482.1	50 DS	VIRA SHIELD® 4 + VL5 HB
<b>IBR-BVD I-BRSV-PI3</b>			
BOEHRINGER INGELHEIM	090.62230.1	50 DS	PYRAMID® 4
<b>IBR-BVD I-BRSV-PI3-Haemophilus somnus</b>			
ZOETIS, INC	554.59090.1	10 DS	RESVAC® 4/SOMUBAC®
ZOETIS, INC	554.59095.1	50 DS	RESVAC® 4/SOMUBAC®
<b>IBR-BVD I-BRSV-PI3-M. Haemolytica</b>			
BOEHRINGER INGELHEIM	090.54025.1	10 DS	TRIANGLE® 4 + PH-K
BOEHRINGER INGELHEIM	090.54030.1	50 DS	TRIANGLE® 4 + PH-K
<b>IBR-BVD I-BRSV-PI3-Vibrio-Lepto 5 way</b>			
ZOETIS, INC	554.14065.1	10 DS	CATTLEMASTER® 4 + VL5
ZOETIS, INC	554.14055.1	25 DS	CATTLEMASTER® 4 + VL5
<b>IBR-BVD I-PI3</b>			
MERIAL LTD.	465.68000.1	10 DS	RELIANT® 3
MERIAL LTD.	465.68100.1	50 DS	RELIANT® 3
<b>IBR-Lepto P</b>			
ELANCO ANIMAL HEALTH	406.85015.1	50 DS	TITANIUM® IBR-LP
<b>IBR-PI3</b>			
MERCK ANIMAL HEALTH	349.51000.1	10 DS	NASALGEN® IP
MERCK ANIMAL HEALTH	349.51020.1	50 DS	NASALGEN® IP
ZOETIS, INC	554.65110.1	10 DS	TSV-2®
ZOETIS, INC	554.65120.1	50 DS	TSV-2®
<b>IBR-PI3-BRSV</b>			
ELANCO ANIMAL HEALTH	406.85020.1	50 DS	TITANIUM® BRSV 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
<b>Lepto 5 way</b>			
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®
<b>Lepto 5 way-Hardjo-bovis</b>			
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
<b>Lepto-Hardjo-bovis</b>			
ZOETIS, INC	554.62260.1	10 DS	<b>SPIROVAC®</b>
ZOETIS, INC	554.62265.1	50 DS	<b>SPIROVAC®</b>
<b>M. Haemolytica</b>			
BOEHRINGER INGELHEIM	090.62120.1	10 DS	<b>PRESPONSE® SQ</b>
BOEHRINGER INGELHEIM	090.62130.1	50 DS	<b>PRESPONSE® SQ</b>
ELANCO ANIMAL HEALTH	296.02020.1	10 DS	<b>NUPLURA™ PH</b>
ELANCO ANIMAL HEALTH	296.02025.1	50 DS	<b>NUPLURA™ PH</b>
ZOETIS, INC	554.50050.1	5 DS	<b>ONE SHOT®</b>
ZOETIS, INC	554.50055.1	10 DS	<b>ONE SHOT®</b>
ZOETIS, INC	554.50060.1	50 DS	<b>ONE SHOT®</b>
<b>M. Haemolytica-P. Multocida</b>			
BOEHRINGER INGELHEIM	090.62100.1	10 DS	<b>PRESPONSE® HM</b>
BOEHRINGER INGELHEIM	090.62110.1	50 DS	<b>PRESPONSE® HM</b>
COLORADO SERUM COMPANY	200.20000.1	10 DS	<b>MANNHEIMIA HAEMOLYTICA-PASTEURELLA MULTOCIDA BACTERIN</b>
COLORADO SERUM COMPANY	200.20010.1	50 DS	<b>MANNHEIMIA HAEMOLYTICA-PASTEURELLA MULTOCIDA BACTERIN</b>
HUVEPHARMA, INC.	801.08205.1	10 DS	<b>PULMO-GUARD® PH-M</b>
HUVEPHARMA, INC.	801.08210.1	50 DS	<b>PULMO-GUARD® PH-M</b>
HUVEPHARMA, INC.	801.08220.1	10 DS	<b>PULMO-GUARD® PHM-1</b>
HUVEPHARMA, INC.	801.08225.1	50 DS	<b>PULMO-GUARD® PHM-1</b>
MERCK ANIMAL HEALTH	349.59028.1	25 X 1 DS	<b>ONCE PMH® IN</b>
MERCK ANIMAL HEALTH	349.59030.1	10 DS	<b>ONCE PMH® IN</b>
MERCK ANIMAL HEALTH	349.59040.1	50 DS	<b>ONCE PMH® IN</b>
MERCK ANIMAL HEALTH	349.59000.1	10 DS	<b>ONCE PMH® SQ</b>
MERCK ANIMAL HEALTH	349.59020.1	50 DS	<b>ONCE PMH® SQ</b>
<b>Mycoplasma</b>			
HUVEPHARMA, INC.	801.01890.1	10 DS	<b>MYCO B ONE DOSE™</b>
HUVEPHARMA, INC.	801.01895.1	50 DS	<b>MYCO B ONE DOSE™</b>
<b>Trichomonas Foetus</b>			
BOEHRINGER INGELHEIM	090.54075.1	10 DS	<b>TRICHGUARD®</b>
BOEHRINGER INGELHEIM	090.54080.1	50 DS	<b>TRICHGUARD®</b>
<b>Trichomonas Foetus-Vibrio-Lepto 5 way</b>			
BOEHRINGER INGELHEIM	090.54085.1	10 DS	<b>TRICHGUARD® V5L</b>
BOEHRINGER INGELHEIM	090.54090.1	50 DS	<b>TRICHGUARD® V5L</b>
<b>Vibrio</b>			
ZOETIS, INC	554.71150.1	50 DS	<b>VIBRIN®</b>
<b>Vibrio-Lepto 5 way</b>			
ELANCO ANIMAL HEALTH	296.05224.1	10 DS	<b>VIB SHIELD® PLUS L5</b>
ELANCO ANIMAL HEALTH	296.05225.1	50 DS	<b>VIB SHIELD® PLUS L5</b>
MERCK ANIMAL HEALTH	349.93720.1	50 DS	<b>VL5 SQ</b>



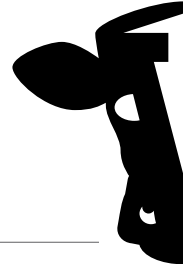
## BIOLOGICALS

Respiratory & Reproductive Vaccines

### RESPIRATORY & REPRODUCTIVE VACCINES

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





**CLOSTRIDIAL VACCINES**

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>Clostridia 7-way</b>			
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	090.11120.1	200 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
<b>Clostridia 7-way-Haemophilus Somnus Bacterin-Toxoid</b>			
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®
<b>Clostridia 7-way-Pasteurella Haemolytica Bacterin-Toxoid</b>			
ZOETIS, INC	554.50070.1	10 DS	ONE SHOT ULTRA™ 7
ZOETIS, INC	554.50075.1	50 DS	ONE SHOT ULTRA™ 7
<b>Clostridia 7-way-Moraxella Bovis Bacterin-Toxoid</b>			
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®
<b>Clostridia 8-way</b>			
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.

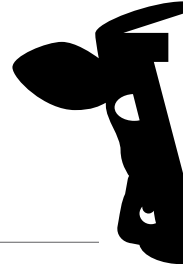


***From the LEADERS in pinkeye prevention!***



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





**CLOSTRIDIAL VACCINES**

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

# Pinkeye Problem? Pinkeye Solution!

## MAXI/GUARD®

delivers twice the pinkeye  
protection with  
single dose convenience



### Broad coverage

8 different *M. bovis* isolates  
Over 90% efficacy

### Easy syringeability

### Approved for subcutaneous administration

### Minimal injection site reactions

### Strong safety record

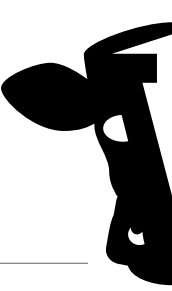
Extremely low endotoxin levels

### Single dose protection



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**PINKEYE VACCINES**

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



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**

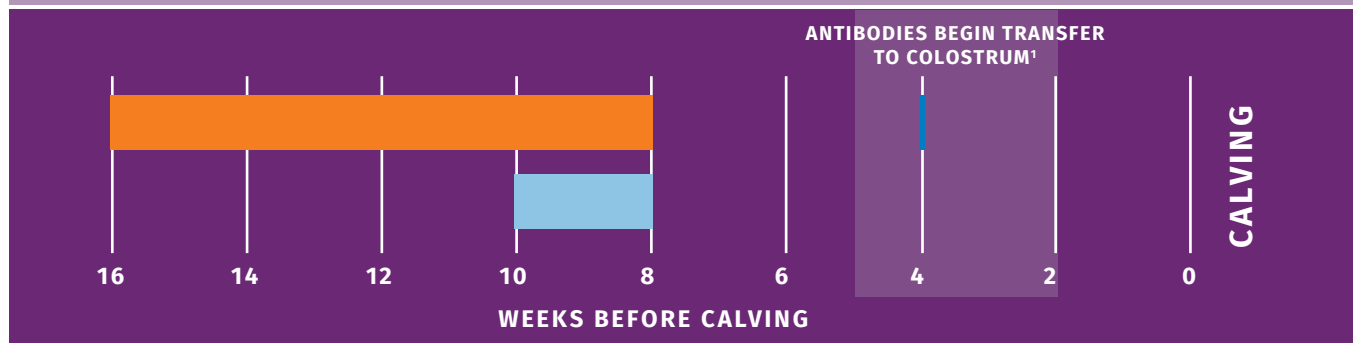


**4 E. COLI ISOLATES**



**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**

## CONTACT YOUR ELANCO SALES REPRESENTATIVE OR TECHNICAL CONSULTANT TODAY

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

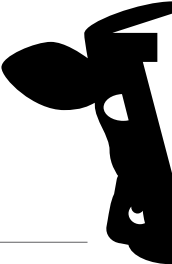
<sup>1</sup>Herr M, Bostedt H, Failing K. IgG and IgM levels in dairy cows during the periparturient period. Theriogenology. 2011;75(2):377-85.

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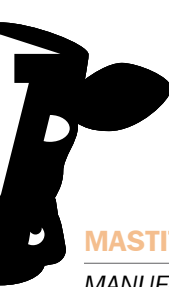


**SCOURS: VACCINES**

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

**SCOURS: OTHER**

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



## BIOLOGICALS

Mastitis Vaccines | Salmonella Vaccines | Antibodies: Injectable

### MASTITIS VACCINES

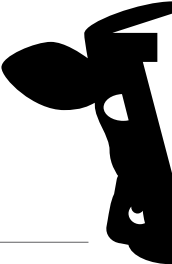
MANUFACTURER	MVS#	SIZE	PRODUCT
<b>Escherichia Coli</b>			
MERCK ANIMAL HEALTH	349.08950.1	50 DS	<b>BOVILIS® J-5</b>
MERIAL LTD.	465.58000.1	10 DS	<b>J-VAC®</b>
MERIAL LTD.	465.58100.1	50 DS	<b>J-VAC®</b>
MERIAL LTD.	465.58200.1	125 DS	<b>J-VAC®</b>
ZOETIS, INC	554.20020.1	20 DS	<b>ENVIRACOR™ J-5</b>
ZOETIS, INC	554.20025.1	50 DS	<b>ENVIRACOR™ J-5</b>
<b>Salmonella Typhimurium Bacterin-Toxoid</b>			
ENDOVAC ANIMAL HEALTH	339.05115.3	20 DS	<b>ENDOVAC-DAIRY® WITH IMMUNEPLUS®</b>
ENDOVAC ANIMAL HEALTH	339.05120.3	50 DS	<b>ENDOVAC-DAIRY® WITH IMMUNEPLUS®</b>
ENDOVAC ANIMAL HEALTH	339.05125.3	100 DS	<b>ENDOVAC-DAIRY® WITH IMMUNEPLUS®</b>
<b>Staphylococcus Aureus Bacterin</b>			
BOEHRINGER INGELHEIM	090.55000.1	10 DS	<b>LYSIGIN®</b>
BOEHRINGER INGELHEIM	090.55010.1	50 DS	<b>LYSIGIN®</b>

### SALMONELLA VACCINES

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>KLEBSIELLA</b>			
HUVEPHARMA, INC.	801.01715.1	50 DS	<b>KLEBVAX™</b>
<b>Salmonella Dublin Vaccine</b>			
BOEHRINGER INGELHEIM	090.38050.1	10 DS	<b>ENTERVENE™ -d</b>
BOEHRINGER INGELHEIM	090.38060.1	50 DS	<b>ENTERVENE™ -d</b>
<b>Salmonella Dublin-Typhimurium Bacterin</b>			
COLORADO SERUM COMPANY	200.01995.1	20 ML	<b>SALMONELLA DUBLIN-TYPHIMURIUM BACTERIN</b>
COLORADO SERUM COMPANY	200.02000.1	100 ML	<b>SALMONELLA DUBLIN-TYPHIMURIUM BACTERIN</b>
<b>Salmonella Newport</b>			
ZOETIS, INC	554.62000.1	50 DS	<b>SALMONELLA NEWPORT BACTERIAL EXTRACT</b>

### ANTIBODIES: INJECTABLE

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



**ANTIBODIES: ORAL**

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

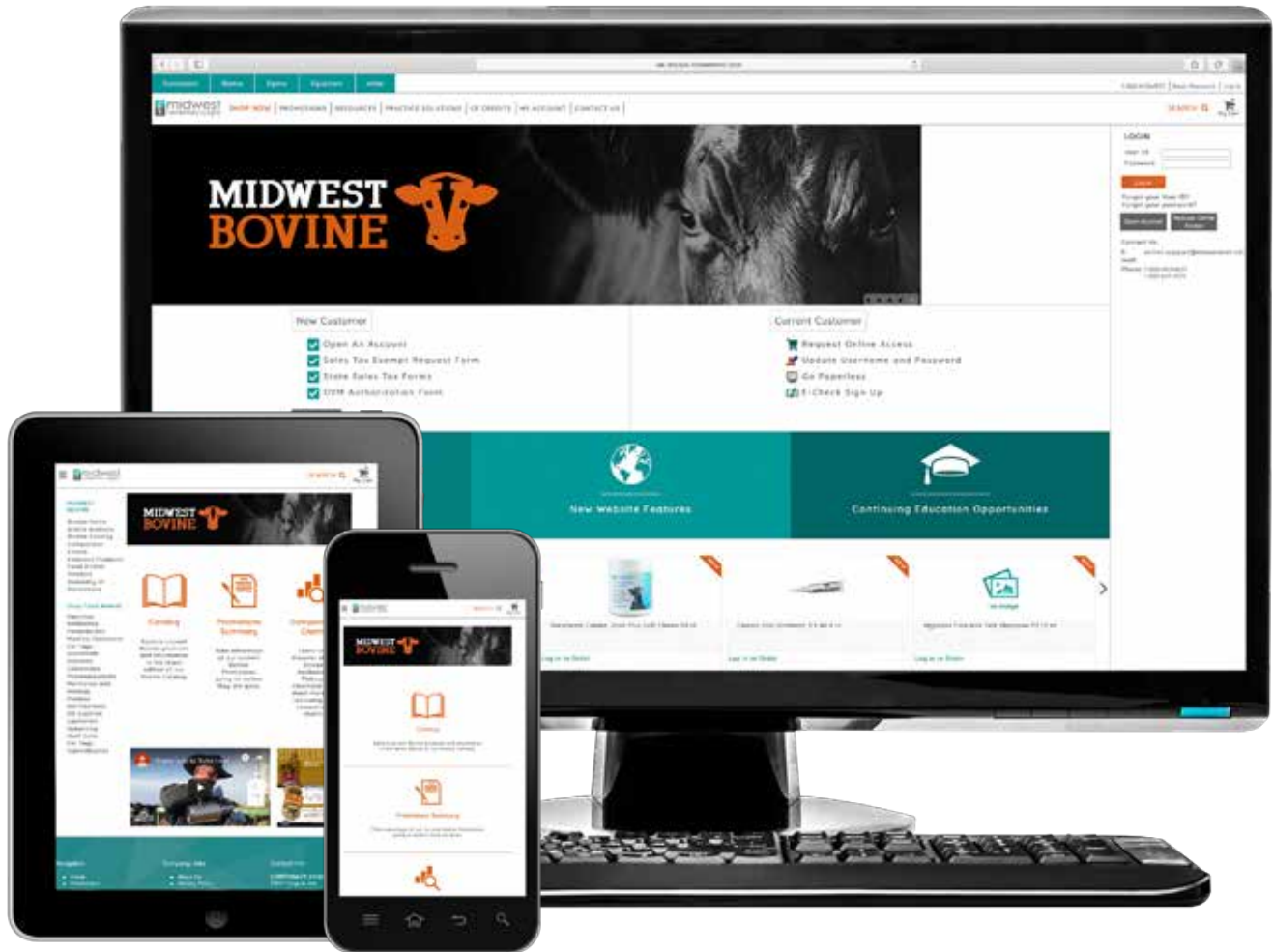
**MISCELLANEOUS VACCINES**

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>Anthrax</b>			
COLORADO SERUM COMPANY	200.00010.1	10 DS	<b>ANTHRAX SPORE VACCINE</b>
COLORADO SERUM COMPANY	200.00015.1	50 DS	<b>ANTHRAX SPORE VACCINE</b>
<b>Brucella Abortus Vaccine Strain RB-51, Live Culture</b>			
PROFESSIONAL BIOLOGICAL COMPANY	200.00028.1	5 DS	<b>BRUCELLA ABORTUS VACCINE (STRAIN RB-51)</b>
PROFESSIONAL BIOLOGICAL COMPANY	200.00029.1	25 DS	<b>BRUCELLA ABORTUS VACCINE (STRAIN RB-51)</b>
<b>Fusobacterium Necrophorum Bacterin</b>			
ELANCO ANIMAL HEALTH	296.10000.1	10 DS	<b>FUSOGARD®</b>
ELANCO ANIMAL HEALTH	296.10010.1	50 DS	<b>FUSOGARD®</b>
ELANCO ANIMAL HEALTH	296.10030.1	250 DS	<b>FUSOGARD®</b>
<b>Wart Vaccine, Killed Virus (Papillomavirus)</b>			
COLORADO SERUM COMPANY	200.00200.1	50 ML	<b>WART VACCINE</b>
COLORADO SERUM COMPANY	200.00202.1	90 ML	<b>WART VACCINE</b>
<b>Salmonella Typhimurium Bacterin-Toxoid</b>			
ENDOVAC ANIMAL HEALTH	339.05100.3	20 DS	<b>ENDOVAC-BEEF® WITH IMMUNEPLUS®</b>
ENDOVAC ANIMAL HEALTH	339.05105.3	50 DS	<b>ENDOVAC-BEEF® WITH IMMUNEPLUS®</b>
ENDOVAC ANIMAL HEALTH	339.05110.3	100 DS	<b>ENDOVAC-BEEF® WITH IMMUNEPLUS®</b>
<b>Tetanus Antitoxin</b>			
PROFESSIONAL BIOLOGICAL COMPANY	200.00195.1	10 X 1500 U	<b>TETANUS ANTITOXIN, EQUINE ORIGIN</b>
PROFESSIONAL BIOLOGICAL COMPANY	200.00196.1	1 X 15,000 U	<b>TETANUS ANTITOXIN, EQUINE ORIGIN</b>
ZOETIS, INC	275.39905.1	10 X 1500 U	<b>TETANUS ANTITOXIN</b>
<b>Tetanus Toxoid</b>			
PROFESSIONAL BIOLOGICAL COMPANY	200.00197.1	10 DS	<b>TETANUS TOXOID-CONCENTRATED</b>
PROFESSIONAL BIOLOGICAL COMPANY	200.00198.1	10 X 1 DS	<b>TETANUS TOXOID-CONCENTRATED</b>

**RABIES VACCINES**

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

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Increased Speed



online.support@midwestvet.net | 866-770-7044



**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 44567-901-03

Pails of 144–10 mL (.33 Fl Oz) disposable syringes with 144 convenient single-use isopropyl alcohol pads.....NDC 44567-901-05

**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.

# Treat mastitis at dry-off with powerful, proven Quartermaster®

In a university study of more than 1000 dairy cows, Quartermaster® Suspension (penicillin-dihydrostreptomycin in oil) was shown to be 93% effective in curing intramammary infections during the dry period.<sup>1</sup> Its 2 active ingredients, including a first-generation penicillin, deliver a powerful punch against mastitis-causing bacteria for highly effective dry cow therapy, round after round, year after year.

For more information on Quartermaster Suspension, contact your veterinarian or call 1-833-551-0306.

[Quartermaster-rx.com](http://Quartermaster-rx.com)

**40 YEARS**



*Don't just treat mastitis. MASTER IT.*

Reference: 1. Arruda AG, Godden S, Rapnicki P, et al. Randomized noninferiority clinical trial evaluating 3 commercial dry cow mastitis preparations: I. Quarter-level outcomes. *J Dairy Sci.* 2013;96:4419–4435.



WG Critical Care, LLC  
Paramus, NJ 07652  
*Quartermaster* is a trademark of West Agro, Inc.

## AMPICILLIN FOR INJECTABLE SUSPENSION, VETERINARY PRESCRIBING INFORMATION

### DESCRIPTION

Ampicillin for injectable suspension, veterinary, is a broad-spectrum penicillin that has bactericidal activity against a wide range of common gram-positive and gram-negative bacteria. Each 25 g vial contains: 25 g ampicillin activity as ampicillin trihydrate, 90 mg methylparaben (as preservative), 10 mg propylparaben (as preservative), 200 mg lecithin, 500 mg povidone, 200 mg sodium chloride, 600 mg sodium citrate anhydrous.

### INDICATIONS

Ampicillin for injectable suspension has proved effective in the treatment of many infections previously beyond the spectrum of penicillin therapy.

### RESIDUE WARNINGS

DO NOT TREAT CATTLE FOR MORE THAN 7 DAYS. MILK FROM TREATED COWS MUST NOT BE USED FOR FOOD DURING TREATMENT AND FOR 48 HOURS (4 MILKINGS) AFTER THE LAST TREATMENT. CATTLE MUST NOT BE SLAUGHTERED FOR FOOD DURING TREATMENT AND FOR 144 HOURS (6 DAYS) AFTER THE LAST TREATMENT.

### DOSAGE

The dosage of ampicillin for injectable suspension will vary according to the animal being treated, the severity of the infection and the animal's response.

**Dogs and Cats**—The recommended dose for dogs or cats is 3 mg/lb of body weight administered twice daily by subcutaneous or intramuscular injection.

**Cattle and Calves Including Non-Ruminating (Veal Calves)**—From 2 mg to 5 mg/lb of body weight once daily by intramuscular injection. Do not treat for more than 7 days. In all species, 3 days treatment is usually adequate, but treatment should be continued for 48 to 72 hours after the animal has become afebrile or asymptomatic.

### CAUTION

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

### STORAGE

Store at or below 25°C (77°F) with excursions permitted up to 30°C (86°F). After reconstitution, store under refrigeration.

### HOW SUPPLIED

Ampicillin for injectable suspension, veterinary, is supplied in vials containing 25 grams ampicillin activity as ampicillin trihydrate.

Manufactured for:  
**US VET Inc.**  
Hamilton, NY 13346

NDC 86108-946-01

25 g per vial

# AMPICILLIN

For Injectable Suspension, Veterinary



Part of a growing family of products providing quality care you can count on.

## AMPICILLIN TRIHYDRATE

- 25 grams of ampicillin activity as ampicillin trihydrate
- Bactericidal activity against a wide range of common gram-positive and gram-negative bacteria
- Effective in the treatment of many infections previously beyond the spectrum of penicillin therapy

PRODUCT	NDC#	COMPOSITION	QUANTITY
AMPICILLIN for Injectable Suspension, Veterinary	86108-946-01	Ampicillin	12 bottles

**NOTE:** A history of allergic reactions to penicillin, cephalosporins, or their analogues should be considered a contraindication for the use of this agent.

Talk to your US VET distribution representative for additional details or call 1-833-551-0306.



UNITED IN CARE

Visit us at [usvetpharm.com](http://usvetpharm.com)



**ANTIBIOTICS: INJECTABLE**

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
NORBROOK INC.	193.00050.3	100 ML	<b>300 PRO LA</b>	Oxytetracycline	300 MG/ML
NORBROOK INC.	193.00052.3	250 ML	<b>300 PRO LA</b>	Oxytetracycline	300 MG/ML
NORBROOK INC.	193.00054.3	500 ML	<b>300 PRO LA</b>	Oxytetracycline	300 MG/ML
ZOETIS, INC	554.09001.3	100 ML	<b>ADVOCIN™</b>	Danofloxacin mesylate	180 MG/ML
ZOETIS, INC	554.09000.3	250 ML	<b>ADVOCIN™</b>	Danofloxacin mesylate	180 MG/ML
HUVEPHARMA, INC.	801.00255.3	100 ML	<b>AGRIMYCIN® 200</b>	Oxytetracycline Injection	200 MG/ML
HUVEPHARMA, INC.	801.00256.3	250 ML	<b>AGRIMYCIN® 200</b>	Oxytetracycline Injection	200 MG/ML
HUVEPHARMA, INC.	801.00257.3	500 ML	<b>AGRIMYCIN® 200</b>	Oxytetracycline Injection	200 MG/ML
US VET, INC.	766.01300.3	25 GM	<b>AMPICILLIN INJ.</b>	Ampicillin	25 GM
BAYER ANIMAL HEALTH	310.00100.3	100 ML	<b>BAYTRIL® 100</b>	Enrofloxacin	100 MG/ML
BAYER ANIMAL HEALTH	310.00105.3	250 ML	<b>BAYTRIL® 100</b>	Enrofloxacin	100 MG/ML
BAYER ANIMAL HEALTH	310.00115.3	500 ML	<b>BAYTRIL® 100</b>	Enrofloxacin	100 MG/ML
BOEHRINGER INGELHEIM	090.00700.3	100 ML	<b>BIO-MYCIN® 200</b>	Oxytetracycline	200 MG/ML
BOEHRINGER INGELHEIM	090.00710.3	250 ML	<b>BIO-MYCIN® 200</b>	Oxytetracycline	200 MG/ML
BOEHRINGER INGELHEIM	090.00720.3	500 ML	<b>BIO-MYCIN® 200</b>	Oxytetracycline	200 MG/ML
BOEHRINGER INGELHEIM	090.00800.3	500 ML	<b>BIO-MYCIN® C</b>	Oxytetracycline HCl	100 MG/ML
MED-PHARMEX, INC.	193.08320.3	1 GM	<b>CEFTIFLEX®</b>	Ceftiofur	50 MG/ML
MED-PHARMEX, INC.	193.08322.3	4 GM	<b>CEFTIFLEX®</b>	Ceftiofur	50 MG/ML
BIMEDA, INC.	193.10420.3	100 ML	<b>COMBI-PEN-48®</b>	Penicillin G benzathine & Penicillin G procaine	150,000 UNITS/ML EACH ACTIVE
BIMEDA, INC.	193.10423.3	500 ML	<b>COMBI-PEN-48®</b>	Penicillin G benzathine & Penicillin G procaine	150,000 UNITS/ML EACH ACTIVE
HUVEPHARMA, INC.	801.01130.3	250 ML	<b>DI-METHOX® INJECTION-40%</b>	Sulfadimethoxine 40%	400 MG/ML
ZOETIS, INC	554.17210.3	50 ML	<b>DRAXXIN® INJECTABLE SOLUTION</b>	Tulathromycin	100 MG/ML
ZOETIS, INC	554.17215.3	100 ML	<b>DRAXXIN® INJECTABLE SOLUTION</b>	Tulathromycin	100 MG/ML
ZOETIS, INC	554.17220.3	250 ML	<b>DRAXXIN® INJECTABLE SOLUTION</b>	Tulathromycin	100 MG/ML
ZOETIS, INC	554.17225.3	500 ML	<b>DRAXXIN® INJECTABLE SOLUTION</b>	Tulathromycin	100 MG/ML
ZOETIS, INC	554.17227.3	100 ML	<b>DRAXXIN® 25 INJECTABLE SOLUTION</b>	Tulathromycin	25 MG/ML
ZOETIS, INC	554.17228.3	250 ML	<b>DRAXXIN® 25 INJECTABLE SOLUTION</b>	Tulathromycin	25 MG/ML
NORBROOK INC.	515.10000.3	100 ML	<b>ENROFLOX™ 100</b>	Enrofloxacin	100 MG/ML
NORBROOK INC.	515.10005.3	250 ML	<b>ENROFLOX™ 100</b>	Enrofloxacin	100 MG/ML
NORBROOK INC.	515.10008.3	500 ML	<b>ENROFLOX™ 100</b>	Enrofloxacin	100 MG/ML
BIMEDA, INC.	193.78605.3	100 ML	<b>ENROMED™ 100</b>	Enrofloxacin	100 MG/ML



# ANTIBIOTICS

Antibiotics: Injectable

## ANTIBIOTICS: INJECTABLE

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
BIMEDA, INC.	193.78606.3	250 ML	<b>ENROMED™ 100</b>	Enrofloxacin	100 MG/ML
ZOETIS, INC	554.20160.3	100 ML	<b>EXCEDE® STERILE SUSPENSION</b>	Ceftiofur	200 MG/ML
ZOETIS, INC	554.20162.3	250 ML	<b>EXCEDE® STERILE SUSPENSION</b>	Ceftiofur	200 MG/ML
ZOETIS, INC	554.20180.3	100 ML	<b>EXCENEL® RTU EZ SUSPENSION</b>	Ceftiofur	50 MG/ML
ZOETIS, INC	554.20181.3	250 ML	<b>EXCENEL® RTU EZ SUSPENSION</b>	Ceftiofur	50 MG/ML
NORBROOK INC.	515.30015.3	500 ML	<b>HEXASOL™ INJECTION</b>	Oxytetracycline and Flunixin meglumine	300 MG/ML OXYTET & 20 MG/ML FLUNIX
ZOETIS, INC	554.41020.3	100 ML	<b>LIQUAMYCIN® LA - 200®</b>	Oxytetracycline	200 MG/ML
ZOETIS, INC	554.41025.3	250 ML	<b>LIQUAMYCIN® LA - 200®</b>	Oxytetracycline	200 MG/ML
ZOETIS, INC	554.41030.3	500 ML	<b>LIQUAMYCIN® LA - 200®</b>	Oxytetracycline	200 MG/ML
ELANCO ANIMAL HEALTH	406.70020.3	250 ML	<b>MICOTIL® 300 INJECTION</b>	Tilmicosin	300 MG/ML
ZOETIS, INC	555.15000.3	1 GM	<b>NAXCEL®</b>	Ceftiofur	50 MG/ML
ZOETIS, INC	555.15010.3	4 GM	<b>NAXCEL®</b>	Ceftiofur	50 MG/ML
NORBROOK INC.	515.57000.3	100 ML	<b>NORFENICOL®</b>	Florfenicol	300 MG/ML
NORBROOK INC.	515.57002.3	250 ML	<b>NORFENICOL®</b>	Florfenicol	300 MG/ML
NORBROOK INC.	515.57004.3	500 ML	<b>NORFENICOL®</b>	Florfenicol	300 MG/ML
NORBROOK INC.	193.55390.3	100 ML	<b>NOROMYCIN 300 LA</b>	Oxytetracycline	300 MG/ML
NORBROOK INC.	193.55392.3	250 ML	<b>NOROMYCIN 300 LA</b>	Oxytetracycline	300 MG/ML
NORBROOK INC.	193.55394.3	500 ML	<b>NOROMYCIN 300 LA</b>	Oxytetracycline	300 MG/ML
MERCK ANIMAL HEALTH	349.57000.3	100 ML	<b>NUFLOR® INJECTABLE</b>	Florfenicol	300 MG/ML
MERCK ANIMAL HEALTH	349.57020.3	250 ML	<b>NUFLOR® INJECTABLE</b>	Florfenicol	300 MG/ML
MERCK ANIMAL HEALTH	349.57040.3	500 ML	<b>NUFLOR® INJECTABLE</b>	Florfenicol	300 MG/ML
NORBROOK INC.	193.59652.3	500 ML	<b>OXYTETRACYCLINE INJECTION 200</b>	Oxytetracycline	200 MG/ML
BIMEDA, INC.	193.62652.3	100 ML	<b>PRO-PEN-G® INJECTION</b>	Penicillin G procaine	300,000 UNITS/ML
BIMEDA, INC.	193.62653.3	250 ML	<b>PRO-PEN-G® INJECTION</b>	Penicillin G procaine	300,000 UNITS/ML
BIMEDA, INC.	193.62654.3	500 ML	<b>PRO-PEN-G® INJECTION</b>	Penicillin G procaine	300,000 UNITS/ML
BOEHRINGER INGELHEIM	090.62020.3	25 GM	<b>POLYFLEX®</b>	Ampicillin	25 GM
MERCK ANIMAL HEALTH	349.75900.3	100 ML	<b>RESFLOR GOLD®</b>	Florfenicol and Flunixin meglumine	300 MG/ML FLORFEN & 16.5 MG/ML FLUNIX
MERCK ANIMAL HEALTH	349.75920.3	250 ML	<b>RESFLOR GOLD®</b>	Florfenicol and Flunixin meglumine	300 MG/ML FLORFEN & 16.5 MG/ML FLUNIX
MERCK ANIMAL HEALTH	349.75940.3	500 ML	<b>RESFLOR GOLD®</b>	Florfenicol and Flunixin meglumine	300 MG/ML FLORFEN & 16.5 MG/ML FLUNIX

Category Continues >>



# QUALITY SOLUTIONS FOR HERD HEALTH



**Enroflox<sup>®</sup> 100**  
(enrofloxacin 100 mg/mL)

- Same active ingredient as Baytril<sup>®</sup> 100 Injection
- Available in 100 mL, 250 mL & now in 500 mL bottles



**Norfenicol<sup>®</sup> Injection**  
(florfenicol 300 mg/mL)

- Same active ingredient as Nuflor<sup>®</sup> Injectable Solution
- Less viscous, more syringeable than Nuflor<sup>\*</sup>
- Plastic bottles eliminate breakage
- Available in 100 mL, 250 mL & 500 mL bottles



**Noromycin<sup>®</sup> 300 LA**  
(oxytetracycline 300 mg/mL)

- Delivers the same dose of oxytetracycline as Liquamycin<sup>®</sup> LA 200 and Bio-Mycin<sup>®</sup> 200 in a lower dose volume
- Available in 100 mL, 250 mL & 500 mL bottles



# Lice Control

By W. Mark Hilton, DVM Senior Technical Consultant at Elanco

Fall is the time of year we think about lice control in much of the country, but is that the correct timing? More and more we hear producers and veterinarians lament about lack of effectiveness of lice control. Are lice getting harder to treat? Here's a little history...

**Cattle can have two types of lice:** chewing (or biting) lice and sucking lice. They live their entire life cycle on the animal. Yes, some lice can fall off the animal and live in bedding for a few days, but that is of minor significance when we think about controlling the parasite. The lice that you see causing excessive scratching and hair loss around the neck and shoulders during the winter are actually on the animal the entire year. Lice are at a much lower population during the warmer months of the year and they seem to infect some animals much easier than others. When the weather turns cooler and the cow's hair grows longer, a louse population explosion ensues. One way cattle limit the lice population during warm months is by them licking themselves and others. A rough cow tongue applied to a slick, summer haircoat is quite efficient in eliminating some annoying lice. In winter, the cow's long and thick haircoat protects the pest from the cattle grooming practice.

If you deworm your cattle with an injectable macrocyclic lactone or ivermectin-type product, you should also pour your cattle with a lice control product. These injectable products are very good at controlling the sucking lice, but lack effectiveness against the chewing lice. Any newly purchased animals should be poured for lice and quarantined from the herd for 30 days.

When you use a pour-on product for lice control be sure to apply the product from the poll to the tailhead. If the product is just splashed on the neck and shoulders, lice that are well away from this area have an excellent chance to move even further away from the product and survive. If you pour from the poll to the tailhead, your chance of success is much greater.

Some lice control products need two doses to be effective. Read the label to see if you need one dose or two and always follow label directions.

If you are walking cows through the chute well ahead of winter, this is likely too early to use a lice control product. Wait until cows start to develop a winter coat to treat them. You want to wait until the louse population explosion occurs so that the insecticide will be the most effective. In some instances, this later time will correspond to when you give a pre-calving vaccination to the cows for calf scours and/or an inactivated IBR-BVD vaccination to improve colostral immunity of these pathogens.

**Are lice developing resistance to some of the products?** While we do not know for sure, it is a possibility. Nonetheless, waiting to treat until the start of winter, pouring from poll to tailhead and following label directions are all things you can do this winter to decrease your chance of an outbreak.

#### **General references:**

Chalmers, K., & Charleston, W. A. G. (1980). Cattle lice in New Zealand: observations on the prevalence, distribution and seasonal patterns of infestation. *New Zealand veterinary journal*, 28(10), 198-200.

Craig, T. (2018, July 3). Personal interview.

Hanlin, S. J. (1994). *The summer distribution of cattle lice in Wyoming* (Doctoral dissertation, University of Wyoming).

Watson, D. W., Lloyd, J. E., & Kumar, R. (1997). Density and distribution of cattle lice (Phthiraptera: Haematopinidae, Linognathidae, Trichodectidae) on six steers. *Veterinary parasitology*, 69(3-4), 283-296.

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**ANTIBIOTICS: INJECTABLE**

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
PHOENIX	193.74052.3	250 ML	<b>SODIUM IODIDE 20% INJECTION</b>	Sodium Iodide	20 GM
BIMEDA, INC.	193.75006.3	250 ML	<b>SULFAMED™ INJECTION 40%</b>	Sulfadimethoxine	400 MG/ML
ELANCO ANIMAL HEALTH	406.90015.3	250 ML	<b>TYLAN® 200 INJECTION</b>	Tylosin	200 MG/ML
ELANCO ANIMAL HEALTH	406.90020.3	500 ML	<b>TYLAN® 200 INJECTION</b>	Tylosin	200 MG/ML
ELANCO ANIMAL HEALTH	406.90025.3	100 ML	<b>TYLAN® 50 INJECTION</b>	Tylosin	50 MG/ML
MERIAL LTD.	465.89000.3	100 ML	<b>ZACTRAN®</b>	Gamithromycin	150 MG/ML
MERIAL LTD.	465.89010.3	250 ML	<b>ZACTRAN®</b>	Gamithromycin	150 MG/ML
MERIAL LTD.	465.89020.3	500 ML	<b>ZACTRAN®</b>	Gamithromycin	150 MG/ML
MERCK ANIMAL HEALTH	349.95500.3	100 ML	<b>ZUPREVO™ 18%</b>	Tildipirosin	180 MG/ML
MERCK ANIMAL HEALTH	349.95520.3	250 ML	<b>ZUPREVO™ 18%</b>	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	<b>ALBON® BOLUSES</b>	Sulfadimethoxine
ZOETIS, INC	554.08050.3	12 CT	15 GM	<b>ALBON® BOLUSES</b>	Sulfadimethoxine
ZOETIS, INC	554.08060.3	50 CT	15 GM	<b>ALBON® BOLUSES</b>	Sulfadimethoxine
BOEHRINGER INGELHEIM	090.61000.3	25 CT	500 MG	<b>OXY 500 CALF BOLUS</b>	Oxytetracycline HCl
BOEHRINGER INGELHEIM	090.61010.3	100 CT	500 MG	<b>OXY 500 CALF BOLUS</b>	Oxytetracycline HCl
BIMEDA, INC.	193.75440.3	50 CT	8.02 GM	<b>SUSTAIN III® CALF BOLUS</b>	Sulfamethazine
BIMEDA, INC.	193.75442.3	50 CT	32.1 GM	<b>SUSTAIN III® CATTLE BOLUS</b>	Sulfamethazine
BIMEDA, INC.	193.75444.3	100 CT	32.1 GM	<b>SUSTAIN III® CATTLE BOLUS</b>	Sulfamethazine

### SOLUBLE POWDER

MANUFACTURER	MVS#	SIZE	STRENGTH	PRODUCT	ACTIVE INGREDIENTS
BIMEDA, INC.	193.52940.3	100 GM	71.4 GM	<b>NEOMED® 325 SOLUBLE POWDER</b>	Neomycin Sulfate (commercial grade)
BIMEDA, INC.	193.52942.3	200 GM	142.8 GM	<b>NEOMED® 325 SOLUBLE POWDER</b>	Neomycin Sulfate (commercial grade)
BOEHRINGER INGELHEIM	090.62000.3	6.4 OZ	10 GM	<b>POLYOTIC® SOLUBLE POWDER</b>	Tetracycline Hydrochloride
BIMEDA, INC.	193.73550.3	453.3 GM	453.3 GM	<b>SMZ-MED™ 454</b>	Sodium Sulfamethazine
BIMEDA, INC.	193.75002.3	535 GM	473 GM	<b>SULFAMED-G®</b>	Sulfadimethoxine
HUVEPHARMA, INC.	801.15130.3	2 LB	324 GM/LB	<b>TETRA BAC 324</b>	Tetracycline Hydrochloride
HUVEPHARMA, INC.	801.15140.3	5 LB	324 GM/LB	<b>TETRA BAC 324</b>	Tetracycline Hydrochloride
BIMEDA, INC.	193.77400.3	2 LB	324 GM/LB	<b>TETRAMED® 324 HCA</b>	Tetracycline Hydrochloride
BIMEDA, INC.	193.77405.3	5 LB	324 GM/LB	<b>TETRAMED® 324 HCA</b>	Tetracycline Hydrochloride
BIMEDA, INC.	193.77410.3	25 LB	324 GM/LB	<b>TETRAMED® 324 HCA</b>	Tetracycline Hydrochloride

### SOLUTIONS

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

# Make Concurrent Deworming a Herd Must-Have

By Harold Newcomb, D.V.M., technical services manager, Merck Animal Health



Parasite control should be the cornerstone of your animal health program because parasites negatively impact the overall health and performance of cattle. They decrease feed intake, reduce average daily gain, lower milk production and impair the immune response to vaccines and diseases.

To help make people aware of parasite resistance, the U.S. Food and Drug Administration recently announced that it is requesting that animal drug companies voluntarily revise the labels of drugs intended to treat certain internal parasites in livestock and horses. Merck Animal Health shares the U.S. Food and Drug Administration's concern and the need for transparency as it relates to parasite resistance.

For more than a decade, Merck Animal Health has maintained the world's largest Fecal Egg Count Reduction Test (FECRT) database to monitor field use efficacy of anthelmintics approved for use in cattle in the U.S. today. The results document that certain classes of dewormers are not as effective today as they have been in the past.

## 90 percent reduction in egg count sought

The FECRT protocol includes taking 20 samples the day of the deworming followed by another 20 samples taken 14 days after the treatment. In the samples taken 14 days after the treatment, at least a 90 percent reduction in egg content should be observed in order to know the anthelmintics are working properly. From 2009-18, results from 721 trials and more than 24,000 samples, representing more than 24 states, have been compiled. See *Table 1*.

Both the endectocide pour-on and the endectocide injectable products performed well below the 90 percent threshold that is critical to ensuring proper parasite management, including:

- In more than 2,700 fecal samples from cattle that were treated solely with an **endectocide pour-on** product, a mere 51 percent efficacy was attained. Nearly half of the eggs remained 14 days after receiving the respective pour-on.
- When evaluating the efficacy of more than 4,400 fecal samples that were treated with an **endectocide injectable pour-on**, only a small uptick in the effectiveness was recorded – specifically, 57.4 percent.

Various fenbendazole formulations were evaluated. In more than 7,500 fecal samples tested, an efficacy of 98.7 percent was accomplished. While these results are greater than the baseline of 90 percent, adding a second dewormer to concurrently treat cattle

resulted in the highest percentage. When analyzing more than 2,700 fecal samples treated with a combination of fenbendazole along with either a pour-on or injectable endectocide, an efficacy of 99.1 percent was achieved.

## A multi-pronged approach

For maximum efficacy, take these four steps:

- 1) Concurrently use two or more **classes** of anthelmintics. Not only does a concurrent deworming program most effectively control internal parasites, it also ensures a sustainable anthelmintic program that helps keep resistance to a minimum.

There are three classes of dewormers approved for use in U.S. cattle – benzimidazoles, endectocides or macrocyclic lactones, and imidazothiazoles. The two most commonly-used are endectocides and benzimidazoles.

- 2) Properly estimate animal weights so a full dose of dewormer is used. Administering less than the recommended amount may not fully treat the parasites.
- 3) Conduct a FECRT annually to monitor efficacy.
- 4) Consult your veterinarian for assistance in diagnosis, treatment and control.

Altogether, these anthelmintic best practices, coupled with proper animal and forage management, are important to the overall stewardship of cattle. Learn more at [MAHcattle.com](http://MAHcattle.com)

TABLE 1

Fecal Egg Count Reduction Test Database* Efficacy Summary	
Treatment	Percent Efficacy
Endectocide Pour-On	51.0%
Endectocide Injectable	57.4%
Various Fenbendazole Formulations	98.7%
<b>Fenbendazole in combination with various endectocides</b>	<b>99.1%</b>

\* Merck Animal Health maintains the world's largest FECRT database to monitor field use efficacy of anthelmintic classes. Through 2018, there were 24,186 samples that were analyzed – 12,171 pre-treatment and 12,015 post-treatment.



# YOUR DEWORMER ISN'T DOING ANY GOOD ON HERE.

Cows tend to spit up high-dose dewormer. And at that point, the only thing it's effective for is staining your boots. Our mission is to get the dose where it needs to be: in the cow. That's why Synanthic® offers a higher concentration at a lower dose — so you get effective deworming with less dewormer.

## LOW DOSE. LESS WASTE.

Talk to your Boehringer Ingelheim rep or visit [Synanthic.com](https://www.synanthic.com) for more details.

### SYNANTHIC RESIDUE WARNING:

Cattle must not be slaughtered until seven days after treatment. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.



Ask your BI rep about the new  
dial-a-dose applicator gun.

## PARASITICIDES

Anthelmintics | Endectocides: Injectable



### ANTHELMINTICS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	MEAT W/D
MERCK ANIMAL HEALTH	349.65600.3	1000 ML	<b>PANACUR® HORSE &amp; CATTLE DEWORMER SUSPENSION 10%</b>	Fenbendazole 100 MG/ML	8 days
MERCK ANIMAL HEALTH	349.65620.3	Gallon	<b>PANACUR® BEEF &amp; DAIRY CATTLE DEWORMER SUSPENSION 10%</b>	Fenbendazole 100 MG/ML	8 days
HUVEPHARMA, INC.	801.05700.3	52 GM	<b>PROHIBIT® SOLUBLE DRENCH POWDER</b>	Levamisole Hydrochloride 46.8 GM/PKT	4 days
HUVEPHARMA, INC.	801.05701.3	605 GM	<b>PROHIBIT® SOLUBLE DRENCH POWDER</b>	Levamisole Hydrochloride 46.8 GM/PKT	4 days
HUVEPHARMA, INC.	801.05705.3	15 X 52 GM	<b>PROHIBIT® SOLUBLE DRENCH POWDER</b>	Levamisole Hydrochloride 46.8 GM/PKT	4 days
MERCK ANIMAL HEALTH	349.78000.3	290 GM	<b>SAFE-GUARD® BEEF AND DAIRY CATTLE DEWORMER</b>	Fenbendazole 100 MG/GM	8 days
MERCK ANIMAL HEALTH	349.78410.3	1000 ML	<b>SAFE-GUARD® DEWORMER FOR BEEF &amp; DAIRY CATTLE AND GOATS SUSPENSION 10%</b>	Fenbendazole 100 MG/ML	8 days
MERCK ANIMAL HEALTH	349.78420.3	Gallon	<b>SAFE-GUARD® DEWORMER FOR BEEF &amp; DAIRY CATTLE AND GOATS SUSPENSION 10%</b>	Fenbendazole 100 MG/ML	8 days
MERCK ANIMAL HEALTH	349.78425.3	10 Liter	<b>SAFE-GUARD® DEWORMER FOR BEEF &amp; DAIRY CATTLE AND GOATS SUSPENSION 10%</b>	Fenbendazole 100 MG/GM	8 days
MERCK ANIMAL HEALTH	349.78320.3	92 GM	<b>SAFE-GUARD® HORSE &amp; CATTLE DEWORMER PASTE 10%</b>	Fenbendazole 100 MG/GM	8 days
MERCK ANIMAL HEALTH	349.80530.3	10 LB	<b>SAFE-GUARD® MEDICATED DEWORMER FOR BEEF &amp; DAIRY CATTLE, &amp; SWINE (0.5% TOP DRESS PELLETS 10 LBS)</b>	Fenbendazole 0.5%	13 days
BOEHRINGER INGELHEIM	090.71060.3	500 ML	<b>SYNANTHIC® BOVINE DEWORMER SUSPENSION, 22.5%</b>	Oxfendazole 225 MG/ML	7 days
BOEHRINGER INGELHEIM	090.71050.3	1 Liter	<b>SYNANTHIC® BOVINE DEWORMER SUSPENSION, 22.5%</b>	Oxfendazole 225 MG/ML	7 days
BOEHRINGER INGELHEIM	090.71070.3	1 Liter	<b>SYNANTHIC® BOVINE DEWORMER SUSPENSION, 9.06%</b>	Oxfendazole 90.6 MG/ML	7 days
BOEHRINGER INGELHEIM	090.71080.3	4 Liter	<b>SYNANTHIC® BOVINE DEWORMER SUSPENSION, 9.06%</b>	Oxfendazole 90.6 MG/ML	7 days
ZOETIS, INC	554.71050.3	500 ML	<b>VALBAZEN® SUSPENSION</b>	Albendazole 113.6 MG/ML	27 days
ZOETIS, INC	554.71060.3	1 Liter	<b>VALBAZEN® SUSPENSION</b>	Albendazole 113.6 MG/ML	27 days
ZOETIS, INC	554.71055.3	5 Liter	<b>VALBAZEN® SUSPENSION</b>	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	<b>AGRI-MECTIN® INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
HUVEPHARMA, INC.	801.00236.3	200 ML	<b>AGRI-MECTIN® INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
HUVEPHARMA, INC.	801.00237.3	500 ML	<b>AGRI-MECTIN® INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days

Category Continues >>



## PARASITICIDES

Endectocides: Injectable | Endectocides: Pour On

### ENDECTOCIDES: INJECTABLE

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	MEAT W/D
BAYER ANIMAL HEALTH	090.23730.3	500 ML	<b>CYDECTIN® INJECTABLE SOLUTION</b>	Moxidectin 1% 10 MG/ML	21 days
ZOETIS, INC	554.17110.3	100 ML	<b>DECTOMAX® INJECTABLE SOLUTION</b>	Doramectin 1% 10 MG/ML	35 days
ZOETIS, INC	554.17100.3	200 ML	<b>DECTOMAX® INJECTABLE SOLUTION</b>	Doramectin 1% 10 MG/ML	35 days
ZOETIS, INC	554.17105.3	500 ML	<b>DECTOMAX® INJECTABLE SOLUTION</b>	Doramectin 1% 10 MG/ML	35 days
MERIAL LTD.	465.53000.3	50 ML	<b>IVOMECS® 1% INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
MERIAL LTD.	465.53100.3	200 ML	<b>IVOMECS® 1% INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
MERIAL LTD.	465.53200.3	500 ML	<b>IVOMECS® 1% INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
MERIAL LTD.	465.53300.3	1000 ML	<b>IVOMECS® 1% INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
MERIAL LTD.	465.54000.3	50 ML	<b>IVOMECS® PLUS INJECTION</b>	Ivermectin 1% 10 MG/ML Clorsulon 10% 100 MG/ML	21 days
MERIAL LTD.	465.54100.3	200 ML	<b>IVOMECS® PLUS INJECTION</b>	Ivermectin 1% 10 MG/ML Clorsulon 10% 100 MG/ML	21 days
MERIAL LTD.	465.54200.3	500 ML	<b>IVOMECS® PLUS INJECTION</b>	Ivermectin 1% 10 MG/ML Clorsulon 10% 100 MG/ML	21 days
MERIAL LTD.	465.54300.3	1000 ML	<b>IVOMECS® PLUS INJECTION</b>	Ivermectin 1% 10 MG/ML Clorsulon 10% 100 MG/ML	21 days
MERIAL LTD.	465.50290.3	100 ML	<b>LONGRANGE™ EXTENDED-RELEASE INJ.</b>	Eprinomectin 50 MG/ML	48 days
MERIAL LTD.	465.50305.3	250 ML	<b>LONGRANGE™ EXTENDED-RELEASE INJ.</b>	Eprinomectin 50 MG/ML	48 days
MERIAL LTD.	465.50310.3	500 ML	<b>LONGRANGE™ EXTENDED-RELEASE INJ.</b>	Eprinomectin 50 MG/ML	48 days
NORBROOK INC.	801.01940.3	50 ML	<b>NOROMECTIN® INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
NORBROOK INC.	801.01942.3	250 ML	<b>NOROMECTIN® INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
NORBROOK INC.	193.55376.3	500 ML	<b>NOROMECTIN® INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
NORBROOK INC.	193.55377.3	1000 ML	<b>NOROMECTIN® INJECTION</b>	Ivermectin 1% 10 MG/ML	35 days
NORBROOK INC.	801.19456.3	50 ML	<b>NOROMECTIN® PLUS INJECTION</b>	Ivermectin 1 % 10 MG/ML Clorsulon 10% 100 MG/ML	21 days
NORBROOK INC.	801.19457.3	250 ML	<b>NOROMECTIN® PLUS INJECTION</b>	Ivermectin 1% 10 MG/ML Clorsulon 10% 100 MG/ML	21 days
NORBROOK INC.	801.19458.3	500 ML	<b>NOROMECTIN® PLUS INJECTION</b>	Ivermectin 1% 10 MG/ML Clorsulon 10% 100 MG/ML	21 days
NORBROOK INC.	801.19459.3	1000 ML	<b>NOROMECTIN® PLUS INJECTION</b>	Ivermectin 1% 10 MG/ML Clorsulon 10% 100 MG/ML	21 days

### ENDECTOCIDES: POUR ON

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	MEAT W/D
BIMEDA, INC.	193.05371.3	1 Liter	<b>BIMECTIN® POUR-ON</b>	Ivermectin 5 MG/ML	48 days
BIMEDA, INC.	193.05372.3	2 X 5 Liter	<b>BIMECTIN® POUR-ON</b>	Ivermectin 5 MG/ML	48 days
BIMEDA, INC.	193.05373.3	20 Liter	<b>BIMECTIN® POUR-ON</b>	Ivermectin 5 MG/ML	48 days

Category Continues >>



WITH JUST ONE DOSE, LONGRANGE® (EPRINOMECTIN) WORKS UP TO 5X LONGER.<sup>1</sup>

By delivering up to 150 days of parasite control with just one dose<sup>2</sup>, LongRange® (eprinomectin) offers the best economic return of any dewormer on the market. The season-long protection provided by Theraphase® technology means greater defense against nutrient-robbing parasites — and ultimately, heftier cattle.

25.4<sup>1</sup>  
MORE POUNDS THAN  
Dectomax® (doramectin).<sup>3</sup>

Visit [theLONGRANGElook.com](http://theLONGRANGElook.com) to learn more.



WORTH ITS WEIGHT IN  
**POUNDS.**



**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.

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

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

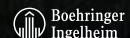
<sup>3</sup> DECTOMAX product label.

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

Cattle First.



Extended product information on page 56

# NAME ONE THING MORE PERSISTENT THAN PARASITES.



## Cydectin® (moxidectin) Pour-On: The classic, consistent dewormer.

Cydectin Pour-On provides persistent protection against four key parasites, including up to 28 days of control against brown stomach worms, which helps protect your cattle from reinfection even after they are turned out for grazing. When it's your name on the line, it's our name you can trust.

Visit your retailer or [BayerLivestock.com](http://BayerLivestock.com) to learn more.

Keep Cydectin out of reach of children.

**CYDECTIN®**  
(moxidectin) Pour-On

## PARASITICIDES

Endectocides: Pour On



### ENDECTOCIDES: POUR ON

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	MEAT W/D
BAYER ANIMAL HEALTH	090.23770.3	500 ML	<b>CYDECTIN® POUR-ON</b>	Moxidectin 5 MG/ML	0 days
BAYER ANIMAL HEALTH	090.23750.3	1 Liter	<b>CYDECTIN® POUR-ON</b>	Moxidectin 5 MG/ML	0 days
BAYER ANIMAL HEALTH	090.23760.3	2.5 Liter	<b>CYDECTIN® POUR-ON</b>	Moxidectin 5 MG/ML	0 days
BAYER ANIMAL HEALTH	090.23780.3	5 Liter	<b>CYDECTIN® POUR-ON</b>	Moxidectin 5 MG/ML	0 days
BAYER ANIMAL HEALTH	090.23740.3	10 Liter	<b>CYDECTIN® POUR-ON</b>	Moxidectin 5 MG/ML	0 days
ZOETIS, INC	554.17125.3	1 Liter	<b>DECTOMAX® POUR-ON</b>	Doramectin 0.5% 5 MG/ML	45 days
ZOETIS, INC	554.17130.3	4 X 2.5 Liter	<b>DECTOMAX® POUR-ON</b>	Doramectin 0.5% 5 MG/ML	45 days
ZOETIS, INC	554.17135.3	2 X 5 Liter	<b>DECTOMAX® POUR-ON</b>	Doramectin 0.5% 5 MG/ML	45 days
NORBROOK INC.	193.05405.3	1 Liter	<b>EPRIZERO®</b>	Eprinomectin 5 MG/ML	0 days
NORBROOK INC.	193.99990.3	2.5 Liter	<b>EPRIZERO®</b>	Eprinomectin 5 MG/ML	0 days
NORBROOK INC.	193.99992.3	5 Liter	<b>EPRIZERO®</b>	Eprinomectin 5 MG/ML	0 days
NORBROOK INC.	193.91991.3	20 Liter	<b>EPRIZERO®</b>	Eprinomectin 5 MG/ML	0 days
MERIAL LTD.	465.51000.3	250 ML	<b>IVOMEC® EPRINEX® POUR-ON</b>	Eprinomectin 5 MG/ML	0 days
MERIAL LTD.	465.51100.3	1 Liter	<b>IVOMEC® EPRINEX® POUR-ON</b>	Eprinomectin 5 MG/ML	0 days
MERIAL LTD.	465.51200.3	2.5 Liter	<b>IVOMEC® EPRINEX® POUR-ON</b>	Eprinomectin 5 MG/ML	0 days
MERIAL LTD.	465.51300.3	5 Liter	<b>IVOMEC® EPRINEX® POUR-ON</b>	Eprinomectin 5 MG/ML	0 days
MERIAL LTD.	465.51400.3	20 Liter	<b>IVOMEC® EPRINEX® POUR-ON</b>	Eprinomectin 5 MG/ML	0 days
MERIAL LTD.	465.55000.3	250 ML	<b>IVOMEC® POUR-ON</b>	Ivermectin 5 MG/ML	48 days
MERIAL LTD.	465.55100.3	1 Liter	<b>IVOMEC® POUR-ON</b>	Ivermectin 5 MG/ML	48 days
MERIAL LTD.	465.55205.3	4 x 2.5 Liter	<b>IVOMEC® POUR-ON</b>	Ivermectin 5 MG/ML	48 days
MERIAL LTD.	465.55305.3	2 x 5 Liter	<b>IVOMEC® POUR-ON</b>	Ivermectin 5 MG/ML	48 days
MERIAL LTD.	465.55400.3	20 Liter	<b>IVOMEC® POUR-ON</b>	Ivermectin 5 MG/ML	48 days

# PROTECT HERD PERFORMANCE FROM 39 PARASITE SPECIES

## Eprizero<sup>®</sup> (eprinomectin)

**POUR-ON** for Beef and Dairy Cattle



Available in 1L, 2.5L, 5L and 20L sizes

**99.9%  
Effective**  
against the  
major species  
and stages of  
parasites

**SAME**  
active  
ingredient and  
dosing regimen  
as Eprinex<sup>®</sup>  
(eprinomectin)

**ZERO**  
milk  
discard

**ZERO**  
days meat  
withdrawal

**Norbrook.com**

Observe label directions. Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism. Do not use in calves to be processed for veal. Not recommended for use in species other than cattle. See product labeling for full product information.

**IMPORTANT SAFETY INFORMATION:** No meat or milk withdrawal is required when used according to label. Do not use in calves intended for veal or unapproved animal species as severe adverse reactions, including fatalities in dogs, may result.

Norbrook logos and Eprizero are registered trademarks of Norbrook Laboratories Limited. Eprinex is a registered trademark of Merial. 0719-563-103A



# U-Seal™

Non-antibiotic  
Dry Cow Intramammary Teat Sealant Device

- ✓ Quick delivery
- ✓ Accurate placement and an effective seal
- ✓ Delivers easy syringe-ability and superior in-teat performance
- ✓ Antibiotic-free



**U-Seal™** is indicated as an aid in the prevention of new intramammary infections throughout the dry period by providing a malleable barrier in the teat canal. This results in a reduction in the incidence of clinical mastitis for the entire dry period by preventing bacteria from entering the teat canal.



Visit [Vedco.com](http://Vedco.com) for more information

Manufactured by: Jurox Pty Limited.  
85 Gardiner Street, Rutherford, NSW 2320, Australia





## MASTITIS TREATMENTS

Dry Cow: Mastitis Tubes | Lactating Cow: Mastitis Tubes

### DRY COW: MASTITIS TUBES

MANUFACTURER	PRODUCT	MVS#	SIZE
BOEHRINGER INGELHEIM	<b>DRY-CLOX®</b>	090.28000.3	12 X 10 ML
BOEHRINGER INGELHEIM	<b>DRY-CLOX®</b>	090.28005.3	144 X 10 ML
BOEHRINGER INGELHEIM	<b>ToMORROW®</b>	090.54110.3	12 X 10 ML
BOEHRINGER INGELHEIM	<b>ToMORROW®</b>	090.54115.3	144 X 10 ML
JUROX PTY, LTD.	<b>U-SEAL™</b>	562.75005.2	144 X 10 ML
MERCK ANIMAL HEALTH	<b>ORBENIN-DC®</b>	349.60800.3	12 X 7.5 GM
MERIAL LTD.	<b>LOCKOUT™</b>	465.50105.3	144 X 10 ML
W.G. CRITICAL CARE	<b>GO-DRY™</b>	766.01412.3	12 X 10 ML
W.G. CRITICAL CARE	<b>QUARTERMASTER®</b>	766.10103.3	12 X 10 ML
W.G. CRITICAL CARE	<b>QUARTERMASTER®</b>	766.10105.3	144 X 10 ML
ZOETIS, INC	<b>ALBADRY PLUS®</b>	554.08030.3	12 X 10 ML
ZOETIS, INC	<b>ALBADRY PLUS®</b>	554.08035.3	144 X 10 ML
ZOETIS, INC	<b>ORBESAL®</b> (non antibiotic teat sealant)	554.50155.3	144 X 10 ML
ZOETIS, INC	<b>SPECTRAMAST® DC</b>	554.62230.3	12 X 10 ML
ZOETIS, INC	<b>SPECTRAMAST® DC</b>	554.62235.3	144 X 10 ML

### LACTATING COW: MASTITIS TUBES

MANUFACTURER	PRODUCT	MVS#	SIZE
BOEHRINGER INGELHEIM	<b>POLYMAST®</b>	090.62030.3	12 X 10 ML
BOEHRINGER INGELHEIM	<b>POLYMAST®</b>	090.62035.3	144 X 10 ML
BOEHRINGER INGELHEIM	<b>ToDAY®</b>	090.54100.3	12 X 10 ML
BOEHRINGER INGELHEIM	<b>ToDAY®</b>	090.54105.3	144 X 10 ML
MERCK ANIMAL HEALTH	<b>AMOXI-MAST®</b>	349.01000.3	12 X 10 ML
MERCK ANIMAL HEALTH	<b>DARICLOX®</b>	349.12080.3	12 X 10 ML
W.G. CRITICAL CARE	<b>MASTI-CLEAR®</b>	766.01410.3	12 X 10 ML
ZOETIS, INC	<b>PIRSUE® STERILE SOLUTION</b>	554.53030.3	12 X 10 ML
ZOETIS, INC	<b>PIRSUE® STERILE SOLUTION</b>	554.53035.3	144 X 10 ML
ZOETIS, INC	<b>SPECTRAMAST® LC</b>	554.62240.3	12 X 10 ML
ZOETIS, INC	<b>SPECTRAMAST® LC</b>	554.62245.3	144 X 10 ML

## MASTITIS TREATMENTS

Dry Cow: Mastitis Tubes | Lactating Cow: Mastitis Tubes



<i>ACTIVE INGREDIENT(S)</i>	<i>INDICATIONS</i>	<i>MEAT W/D</i>	<i>MILK W/H</i>	<i>DRY PERIOD</i>
Cloxacillin benzathine	Treatment of mastitis	30 days	0 hours	30 days
Cloxacillin benzathine	Treatment of mastitis	30 days	0 hours	30 days
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
Benzathine cloxacillin	Treatment and Prophylaxis of mastitis	28 days	0 hours	28 days
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

<i>ACTIVE INGREDIENT(S)</i>	<i>INDICATIONS</i>	<i>MEAT W/D</i>	<i>MILK W/H</i>
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

A man wearing a brown cowboy hat and a blue button-down shirt is aiming a grey triple-barrel shotgun. The background is a blurred green field under a bright sky.

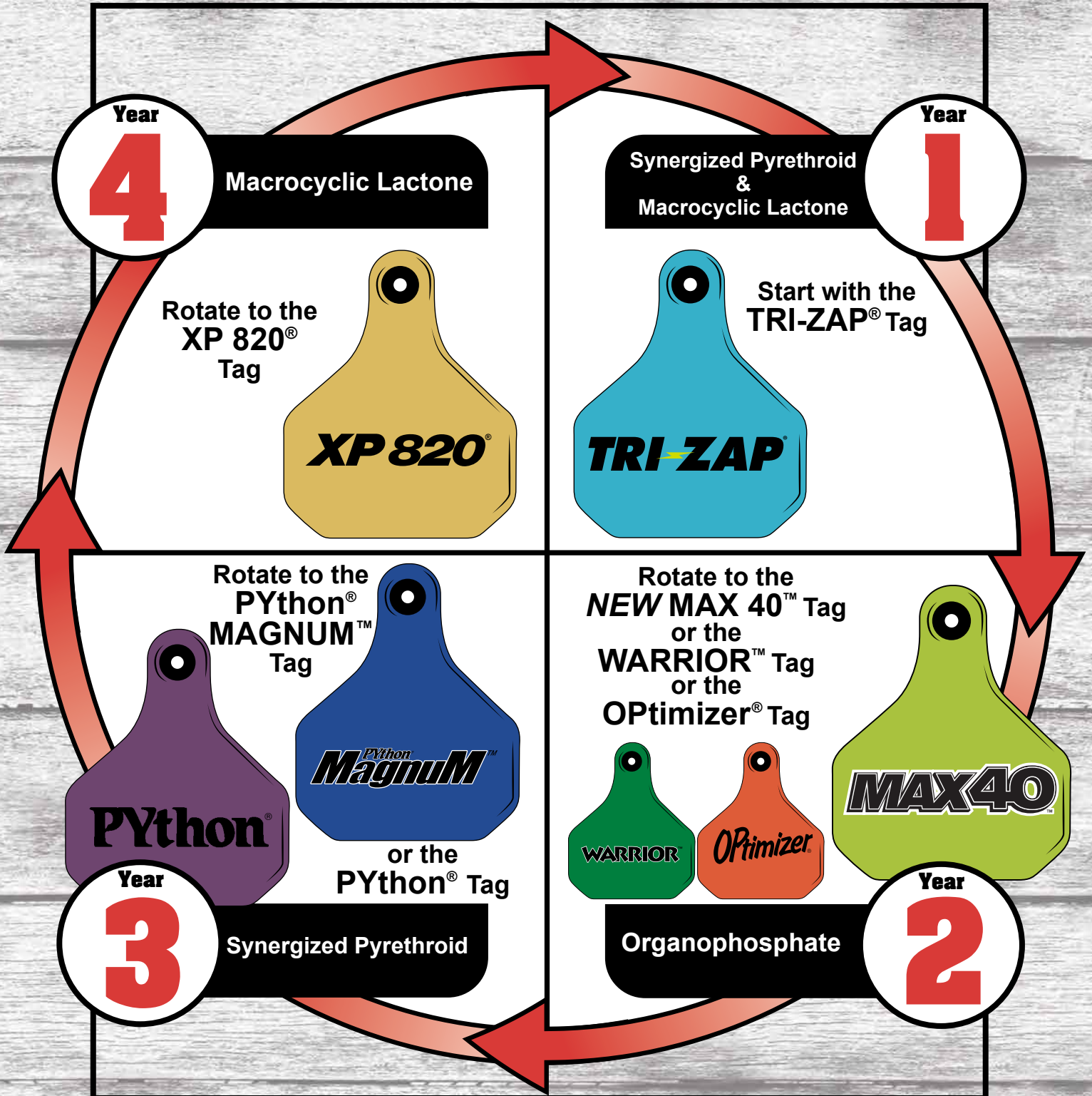
# Hit blood-sucking parasites with the triple-barrel power of New TRI-ZAP™ tags.

When you go gunnin' for horn flies, face flies, lice and ear ticks, make sure you're packing the right weapons. New TRI-ZAP™ insecticide cattle ear tags from Y-TEX®. TRI-ZAP tags are the only tags on the market with three proven active ingredients to stop performance-robbing parasites dead in their tracks. Even those resistant to other tags. So ask your livestock products supplier for the triple-barrel power of TRI-ZAP insecticide cattle ear tags, or visit [www.ytex.com](http://www.ytex.com) to learn more.





# The NEW Insecticide Tag Rotation Program from



**REPEAT THE CYCLE**



## EAR TAGS

Insecticide Ear Tags | Identification Ear Tags

### INSECTICIDE EAR TAGS

KEY: ■ = Synergized Pyrethroid/Macrocyclic Lactone

■ = Macrocyclic Lactone

PRODUCT	TRI-ZAP™	XP 820™	Double Barrel® VP	Corathon®	Dominator®	Max40™	Optimizer®
MANUFACTURER	Y-TEX	Y-TEX	MERCK	BAYER	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>
<b>BAYER</b>	<b>Y-TEX</b>	<b>BAYER</b>	<b>Y-TEX</b>	<b>Y-TEX</b>	<b>Y-TEX</b>	<b>MERCK</b>	<b>BAYER</b>
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%/ Lambdacyhalothrin 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			

# DATAMARS *Livestock*<sup>™</sup>

**Works better together.**

## ***Your instincts, our intel.***

*Let's not beat around the bush - agriculture is hard work. It's early mornings, it's late nights. It's about getting your hands dirty to get the job done. It's about adapting to challenges, and there are many. 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.*

**datamarsna.com | 800.433.3112**

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DATAMARS

**Patriot.**  
DATAMARS

**njphillips.**  
DATAMARS

IMPLANTS THAT ARE AS FLEXIBLE

AS YOU NEED THEM TO BE



Whether you're working this season's calf crop, processing stockers or running a feedlot, it's easy to find a SYNOVEX® implant that's a perfect fit for your performance goals. Learn more at [GrowWithSYNOVEX.com](http://GrowWithSYNOVEX.com)

Do not use SYNOVEX products in veal calves. Refer to label for complete directions for use, precautions, and warnings.



# CATTLE IMPLANTS

## CATTLE IMPLANTS

PRODUCT	CODE	SIZE	MANUFACTURER	ACTIVE INGREDIENTS		
				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/TYLAN®	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
Zeranol	

# CATTLE IMPLANTS



			INDICATIONS					
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  
NADA 141-327, Approved by FDA for subcutaneous injection  
For the Treatment and Control of Internal and External Parasites of Cattle on Pasture  
with Persistent Effectiveness

**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 20 species and stages of internal and external parasites of cattle:

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

Parasites	Durations of Persistent Effectiveness
<b>Gastrointestinal Roundworms</b>	
<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
<b>Lungworms</b>	
<i>Dictyoaulus 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).

**WARNINGS AND PRECAUTIONS**

**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:** Underdosing and/or subtherapeutic concentrations of extended-release anthelmintic products may encourage the development of parasite resistance. It is recommended that parasite resistance be monitored following the use of any anthelmintic with the use of a fecal egg count reduction test program.

**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. Made in Canada. Manufactured for Merial, Inc., Duluth, GA, USA. \*The Cattle Head Logo and ®LONGRANGE are registered trademarks of Merial, Inc.

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# TEST MORE TREAT LESS



**PortaCheck**  
On-farm  
Testing Solutions

PortaCheck products are ideal for monitoring milk quality and animal health. Use them to:

- ▶ Test problem cows or quarters on-farm
- ▶ Check cows at freshening and dry-off
- ▶ Monitor response to treatment
- ▶ Check animals prior to purchase and insemination
- ▶ Monitor passive transfer of IgG in calves

**PortaCheck**, Inc.

856.231.8894 | [www.portacheck.com](http://www.portacheck.com)

**BHBCheck<sup>TM</sup> Plus**  
blood ketone & glucose test system

- Fast, accurate, and affordable whole blood test that uses 1 drop of blood
- Screening for subclinical ketosis
- Now reads glucose as well as  $\beta$ -hydroxybutyrate (BHB)
- Quantitative results in 5 seconds (BHB) and 7 seconds (glucose)



the **PortaBHB**<sup>®</sup>  
milk ketone test

- 1 minute milk dipstick test for detection of BHB



# LOOKING FOR MORE ON EQUIPMENT?

Check out our Equipment Page on the Midwest website!

## HOW TO GET THERE?

Go to [www.midwestvet.net](http://www.midwestvet.net) and click the **Equipment** tab in the top toolbar.

## FEATURES:

**Shop Equipment** | Shop by category or search for specific items, add items directly to your quote cart or call your Equipment Rep for pricing.

**Equipment Outlet** | Looking for a deal? Look no further. Discounted, refurbished, discontinued, and demo equipment available with reduced pricing, just add straight to your shopping cart. Outlet items are listed on the Midwest Markdown page.

**Equipment Catalog** | Full electronic catalog, flip book style for easy viewing and shopping. Download the whole catalog or just save a page.

**The Beat** | Quarterly Newsletter that features new technologies, vendors, products, quarterly promotions, and special articles you can use in your clinic.

**Equipment Library** | Resources, how to videos, manuals, past articles from *The Beat*, and vendor catalogs that are easy to view or download.

## NEED HELP FINDING LARGE ANIMAL EQUIPMENT?

Email the equipment department at [equipment@midwestvet.net](mailto:equipment@midwestvet.net)



MIDWEST EQUIPMENT

# The first thing every calf needs

## NATURAL BOVINE COLOSTRUM

### DELIVERING HIGH IMMUNITY



#### Natural Bovine Colostrum

- ◆ Made from only bovine colostrum. Simply colostrum. No blood, whey, egg or other ingredients not naturally found in maternal colostrum.
- ◆ High in growth and antimicrobial factors; contains naturally high levels of IGF-1, EGF, lactoferrin, trypsin inhibitor and other colostrum factors.

#### High Immunity

- ◆ IgG molecules are readily absorbed for maximum immune protection.
- ◆ > 85% IgG<sub>1</sub> - The antibody most effective in protecting calves against diarrhea and pneumonia.
- ◆ Broad spectrum of antibodies with demonstrated efficacy in 4 continents.

#### High in Colostral Fat

- ◆ An important energy source required by calves immediately after birth.

#### Safe and Effective

- ◆ Free of pathogens that cause the following diseases: Tuberculosis, Brucellosis, Leucosis, Paratuberculosis (causing Johne's disease), Salmonellosis, E. coli infection, others.
- ◆ USDA Veterinary Biologics licensed for use as a total replacement for maternal colostrum in calves as an aid in the treatment of failure of passive transfer.
- ◆ Each serial is tested in calves for safety and efficacy.

#### Convenient

- ◆ Easily mixes in under 15 seconds!
- ◆ 3-year shelf life.

# CALF SOLUTIONS

## SINGLE-USE, NO CLEAN-UP & BIOSECURE

**OXFORD AG'S COLOSTRUM SUPPLEMENTS AND REPLACERS** are derived from high-quality, dried bovine colostrum, and are specially formulated to allow complete mixing *without the whisk workout*.

**OXFORD AG ELECTROLYTE PREMIUM SOLUTION** is a unique, high quality electrolyte formulated to meet the latest, most stringent recommendations by leading calf rehydration experts.

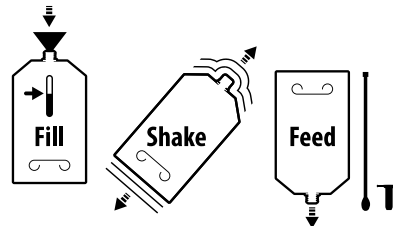
Other colostrum and electrolyte products require many other tools in order to be fed – *a bucket, a whisk, a bottle and nipple or drench bag*. And, after using all these items, you still need to clean them.

**Not so with Oxford Ag Colostrum and Electrolyte products!**

They are packaged in the convenient single-dose Perfect Udder® Feeding System so they are ready when you need them.

## IT'S SIMPLE

Just **FILL** the bag with warm water, **SHAKE** it into solution, and **FEED** it with a tube or nipple. *Quick, Easy and Biosecure.*



Oxford Ag Colostrum	GLOBULIN PROTEIN	DERIVED FROM	CRUDE PROTEIN	FAT	BIO SECURITY		
					NO Cleanup	Fill, Shake, Feed	Single-Use Feed Tube Included
COLOSTRUM150	150G	Bovine Colostrum	47%	20%	✓	✓	✓
COLOSTRUM100	100G	Bovine Colostrum	47%	20%	✓	✓	✓

### Recommended Levels for Electrolytes

Levels Based on Dr. Geof Smith & University of WI guidelines for Electrolytes	mM/L Sodium 90-130	mM/L Potassium 10-30	mM/L Chloride 40-80	Strong ION Difference >60mEq/L
<b>Oxford Ag Electrolyte</b>	<b>130</b>	<b>26</b>	<b>72</b>	<b>84</b>

*The above analysis is based on information published by the Wisconsin Veterinary Diagnostic Laboratory and from Dr. Geof Smith's table and guidelines as published in Veterinary Clinics of North America.*

Try Oxford Ag's **COLOSTRUM100 SUPPLEMENT, COLOSTRUM150 REPLACER** and **ELECTROLYTE PREMIUM SOLUTION** in the Perfect Udder® Feeding System and you will never tear the top off of another foil pouch again.

Available in **Single Doses** or in **Cases**. Includes Single-use, disposable feeding tube for each dose. Ask your Midwest Vet Supply Rep for more details.



**It's Simple. Just Fill, Shake and Feed!**



# COLOSTRUMS

Replacers & Supplements

## REPLACERS & SUPPLEMENTS

PRODUCT	MVS#	SIZE	GLOBULIN PROTEIN	INDICATED USE
<b>DAIRY TECH (OXFORD AG)</b>				
COLOSTRUM 150 REPLACER	427.10000.3	6 CT (Pouches)	150 GM/Pouch	Colostrum Replacer
COLOSTRUM 100 SUPPLEMENT	472.10010.3	10 CT (Pouches)	100 GM/Pouch	Colostrum Supplement
<b>HUVEPHARMA, INC.</b>				
COLOSTRX® CR (Whey Based / USDA Licensed)	801.00370.3	500 GM	100 GM/Pouch	Colostrum Replacer
COLOSTRX® CS (Whey Based / USDA Licensed)	801.00368.3	350 GM	50 GM/Pouch	Colostrum Supplement
<b>SCCL</b>				
BOVINE IGG COLOSTRUM 200™	031.00055.3	750 GM	200 GM/Pouch	Colostrum Replacer
CALF'S CHOICE TOTAL™ GOLD (High Im- munity)	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
PURESTART™ COLOSTRUM (OMRI listed for organic use)	031.00035.3	700 GM	100 GM/Pouch	Colostrum Replacer / Supplement





## PHARMACEUTICALS

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

### ACETONEMIA (KETOSIS) PREPARATIONS

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

### ANESTHETIC

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

### ANTACID & ADSORBENT PREPARATIONS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
PRN PHARMACAL	193.17320.3	50 CT	<b>ENDOSORB™ BOLUS</b>	Activated attapulgit	240 GR
PRN PHARMACAL	193.17322.3	4 OZ	<b>ENDOSORB™ SUSPENSION</b>	Activated attapulgit	150 MG/ML
PRN PHARMACAL	193.17324.3	GAL	<b>ENDOSORB™ SUSPENSION</b>	Activated attapulgit	150 MG/ML
PHOENIX	193.39800.3	GAL	<b>KAO-PECT+</b>	Kaolin (colloidal)	90 GR/OZ
				Pectin (citrus)	2 GR/OZ
PHOENIX	193.46605.3	50 CT	<b>MAGNALAX BOLUS</b>	Magnesium Oxide	17.9 GM
PHOENIX	193.45630.3	1 LB	<b>MAGNALAX POWDER</b>	Magnesium Hydroxide	10.35 OZ

### ANTIDIARRHEALS

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

### ANTICOCCIDIALS

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH	MEAT W/D
BIMEDA, INC.	193.02501.3	GAL	<b>AMPROLIUM 9.6% ORAL SOLUTION</b>	Amprolium	9.60%	24 hours
HUVEPHARMA, INC.	801.00400.3	10 LB	<b>CORID® 1.25% PELLETS</b>	Amprolium	1.25%	24 hours
HUVEPHARMA, INC.	801.00405.3	16 OZ	<b>CORID® 9.6% ORAL SOLUTION</b>	Amprolium	9.60%	24 hours
HUVEPHARMA, INC.	801.00410.3	GAL	<b>CORID® 9.6% ORAL SOLUTION</b>	Amprolium	9.60%	24 hours
HUVEPHARMA, INC.	801.00415.3	10 OZ	<b>CORID® 20% SOLUBLE POWDER</b>	Amprolium	20%	24 hours

## PHARMACEUTICALS

Antidotes | Anti-Inflammatories



### ANTIDOTES

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH
VEDCO	562.20248.3	100 ML	<b>ATROPINE SULFATE L.A.</b>	Atropine Sulfate	15 MG/ML
VETS PLUS	735.11000.3	300 ML	<b>KLATOX™ GEL</b>	Attapulgite Clay Kaolin	200 MG/ML 50 MG/ML
LLOYD, INC.	730.00435.3	1 LB	<b>TOXIBAN® GRANULES</b>	MedChar™ (Activated charcoal) Sorbitol Kaolin	475 GM/KG 200 GM/KG 100 GM/KG
LLOYD, INC.	730.00440.3	5 KG	<b>TOXIBAN® GRANULES</b>	MedChar™ (Activated charcoal) Sorbitol Kaolin	475 GM/KG 200 GM/KG 100 GM/KG
LLOYD, INC.	730.00450.3	240 ML	<b>TOXIBAN® SUSPENSION</b>	MedChar™ (Activated charcoal) Kaolin	104 MG/ML 62.5 MG/ML
LLOYD, INC.	730.00452.3	240 ML	<b>TOXIBAN® SUSPENSION W/SORBITOL</b>	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	<b>UNIVERSAL ANIMAL ANTIDOTE</b>	Activated Hardwood Charcoal Kaolin	120 MG/ML 60 MG/ML
NICH MARKETERS INC.	507.70010.3	8 OZ	<b>UNIVERSAL ANIMAL ANTIDOTE</b>	Activated Hardwood Charcoal Kaolin	120 MG/ML 60 MG/ML
NICH MARKETERS INC.	507.70020.3	300 ML	<b>UNIVERSAL ANIMAL ANTIDOTE</b>	Activated Hardwood Charcoal Kaolin	120 MG/ML 60 MG/ML
NICH MARKETERS INC.	507.70005.3	60 ML	<b>UNIVERSAL ANIMAL ANTIDOTE W/SORBITOL</b>	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	<b>ANIPRIN F</b>	Acetylsalicylic Acid	225,000 MG/LB		
AHC PRODUCTS, INC	153.01015.3	2.5 LB	<b>ANIPRIN F</b>	Acetylsalicylic Acid	225,000 MG/LB		
AHC PRODUCTS, INC	153.00069.3	5 LB	<b>ANIPRIN F</b>	Acetylsalicylic Acid	225,000 MG/LB		
PHOENIX	193.02868.3	50 CT	<b>ASPIRIN BOLUS 240 GRAINS</b>	Acetylsalicylic Acid	240 grains	4 days	36 hours
VEDCO	562.00800.3	50 CT	<b>ASPIRIN BOLUS 240 GRAINS</b>	Acetylsalicylic Acid	240 grains	4 days	36 hours
VEDCO	562.00802.3	50 CT	<b>ASPIRIN BOLUS 480 GRAINS</b>	Acetylsalicylic Acid	480 grains	4 days	36 hours
PHOENIX	193.02874.3	1 LB	<b>ASPIRIN POWDER APPLE FLAVORED</b>	Acetylsalicylic Acid	1 LB		
MERCK ANIMAL HEALTH	349.08000.3	100 ML	<b>BANAMINE® INJECTABLE SOLUTION</b>	Flunixin meglumine	50 MG/ML	4 days	36 hours
MERCK ANIMAL HEALTH	349.08100.3	250 ML	<b>BANAMINE® INJECTABLE SOLUTION</b>	Flunixin meglumine	50 MG/ML	4 days	36 hours
MERCK ANIMAL HEALTH	349.08110.3	100 ML	<b>BANAMINE® TRANSDERMAL SOLUTION</b>	Flunixin meglumine	50 MG/ML	8 days	
MERCK ANIMAL HEALTH	349.08115.3	250 ML	<b>BANAMINE® TRANSDERMAL SOLUTION</b>	Flunixin meglumine	50 MG/ML	8 days	

Category Continues >>

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.....5 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.

**DIRECTIONS:**

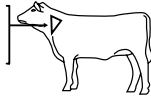
This product is only for use in cattle.

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).



## GIVE YOUR VETERINARY PRACTICE & PRODUCERS THE COMPETITIVE ADVANTAGE

**Don't Compromise Cattle Health & Reproduction — Inject MULTIMIN® 90 to rapidly boost trace mineral status in every animal treated with no antagonist interference.**

**Rx REQUIRED**



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



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



Learn More

[www.multiminusa.com](http://www.multiminusa.com)  
1.866.269.6467





**ANTI-INFLAMMATORIES**

MANUFACTURER	MVS#	SIZE	PRODUCT	ACTIVE INGREDIENTS	STRENGTH	MEAT W/D	MILK W/H
MERCK ANIMAL HEALTH	349.08120.3	1000 ML	<b>BANAMINE® TRANSDERMAL SOLUTION</b>	Flunix meglumine	50 MG/ML	8 days	
PHOENIX	193.13214.3	100 ML	<b>DEXAMETHA- SONE INJECTION</b>	Dexamethasone	2 MG/ML		
BIMEDA, INC.	193.20620.3	100 ML	<b>FLUNAZINE® INJECTABLE</b>	Flunix meglumine	50 MG/ML	4 days	36 hours
BIMEDA, INC.	193.20621.3	250 ML	<b>FLUNAZINE® INJECTABLE</b>	Flunix meglumine	50 MG/ML	4 days	36 hours
HUVEPHARMA, INC.	801.01330.3	100 ML	<b>FLU-NIX™</b>	Flunix meglumine	50 MG/ML	4 days	36 hours
HUVEPHARMA, INC.	801.01335.3	250 ML	<b>FLU-NIX™</b>	Flunix meglumine	50 MG/ML	4 days	36 hours
ZOETIS, INC	555.17010.3	100 ML	<b>PREDEF® 2X</b>	Isoflupredone acetate	2 MG/ML	7 days	

**APPETITE STIMULANTS**

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

**AUTONOMIC DRUG**

MANUFACTURER	MVS#	SIZE	PRODUCT
VEDCO	562.20248.3	100 ML	<b>ATROPINE SULFATE L.A. 15 MG/ML</b>

**BLOAT PREPARATIONS**

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

**DIURETICS**

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

**FLUID THERAPY (INJECTABLE AND/OR ISOTONIC SOLUTIONS)**

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>Fluid therapy - bicarbonate</b>			
NEOGEN CORPORATION	193.74050.3	100 ML	<b>SODIUM BICARBONATE 8.4%</b>
<b>Fluid therapy - calcium (main ingredient)</b>			
PHOENIX	193.07615.3	500 ML	<b>CAL-PHOS #2 WITH POTASSIUM INJECTION</b>
VEDCO	562.32015.2	500 ML	<b>ULTIGIENE™ CALCIUM 23%</b>
VEDCO	562.32017.2	500 ML	<b>ULTIGIENE™ C.M.P.K.</b>

# UltiGiene™

## All Severe Cases Milk Fever, Ketosis or Shock



*"Quality Doesn't Mean It Has To Cost More"*

### UltiGiene™

**Terminally Sterilized  
IV Solutions**

**Filled in Easy-to-Hold  
RigiGrip™ Bottles.**

Terminal Sterilization is a process of sterilizing a product in its final container. This is an important process as it provides increased sterility assurance. Regulatory authorities on a global basis have long expressed a preference for the use of terminal sterilization for injectable dosage forms.

All UltiGiene™ dosage forms are color-coded for ease of identification.

## VEDCO

5503 Corporate Dr.  
Saint Joseph, MO. 64507  
[www.vedco.com](http://www.vedco.com)



**FLUID THERAPY (INJECTABLE AND/OR ISOTONIC SOLUTIONS)**

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>Fluid therapy - dextrose (main ingredient)</b>			
PHOENIX	193.13340.3	500 ML	<b>DEXTROSE SOLUTION 50%</b>
VEDCO	562.32000.3	500 ML	<b>ULTIGIENE™ DEXTROSE 50%</b>
<b>Fluid therapy - LRS</b>			
PHOENIX	193.43000.3	1000 ML	<b>LACTATED RINGERS INJECTION</b>
WG CRITICAL CARE	766.50101.3	1000 ML	<b>LACTATED RINGERS INJECTION, USP</b>
WG CRITICAL CARE	766.50120.3	3000 ML	<b>LACTATED RINGERS INJECTION, USP</b>
WG CRITICAL CARE	766.50140.3	5000 ML	<b>LACTATED RINGERS INJECTION, USP</b>
VEDCO	562.32003.3	1000 ML	<b>ULTIGIENE™ LACTATED RINGERS</b>
<b>Fluid therapy - NaCl</b>			
PHOENIX	193.74504.3	1000 ML	<b>SALINE SOLUTION 0.9% STERILE</b>
PHOENIX	193.74500.3	250 ML	<b>STERILE SALINE SOLUTION</b>
PHOENIX	193.74504.3	1000 ML	<b>STERILE SALINE SOLUTION</b>
VEDCO	562.32200.3	1000 ML	<b>ULTIGIENE™ HYPERTONIC SALINE SOLUTION 7.2%</b>
VEDCO	562.32006.3	250 ML	<b>ULTIGIENE™ NORMAL SALINE SOLUTION</b>
VEDCO	562.32008.3	500 ML	<b>ULTIGIENE™ NORMAL SALINE SOLUTION</b>
VEDCO	562.32010.2	1000 ML	<b>ULTIGIENE™ NORMAL SALINE SOLUTION</b>
<b>Oral electrolytes</b>			
PHOENIX	193.02100.3	1000 ML	<b>AMCALCILYTE FORTE ORAL SOLUTION</b>
TECHMIX	693.03000.3	6 LB	<b>BLUELITE® C</b>
TECHMIX	693.03995.3	2 LB	<b>BOVINE BLUELITE®</b>
TECHMIX	693.04000.3	6 LB	<b>BOVINE BLUELITE®</b>
TECHMIX	693.04100.3	5 OZ	<b>CALF RESTART™ ONE-4</b>
TECHMIX	693.04105.3	25 LB	<b>CALF RESTART™ ONE-4</b>
HUVEPHARMA, INC.	801.01100.3	74 GM	<b>DELIVER® WITH DIALINE®</b>
HUVEPHARMA, INC.	801.01102.3	1.1 KG	<b>DELIVER® WITH DIALINE®</b>
HUVEPHARMA, INC.	801.01104.3	4.4 KG	<b>DELIVER® WITH DIALINE®</b>
BOEHRINGER INGELHEIM	090.24012.3	6.6 LB	<b>DIAQUE™</b>
BOEHRINGER INGELHEIM	090.24013.3	22 LB	<b>DIAQUE™</b>
DAIRY TECH (OXFORD AG)	427.10015.3	12 CT POUCHES	<b>ELECTROLYTE PREMIUM</b>
ZOETIS, INC	554.20070.3	178 GM	<b>ENTROLYTE® H.E.</b>
VETOQUINOL USA, INC.	733.08012.3	4 X 66 GM	<b>EPIC® CALF ELECTROLYTE</b>
VETOQUINOL USA, INC.	733.08014.3	5 LB	<b>EPIC® CALF ELECTROLYTE</b>
VETOQUINOL USA, INC.	733.08011.3	20 LB	<b>EPIC® CALF ELECTROLYTE</b>
PHOENIX	193.24550.3	1000 ML	<b>GLUCO-AMINO-FORTE ORAL SOLUTION</b>
HUVEPHARMA, INC.	730.00197.3	5.76 OZ	<b>HYDRA-LYTE®</b>



## PHARMACEUTICALS

Fluid Therapy | Immunostimulants | Laxatives | Sterile Water | Uterine Preparations

### FLUID THERAPY (INJECTABLE AND/OR ISOTONIC SOLUTIONS)

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>Oral electrolytes (Continued)</b>			
ZOETIS, INC	554.59005.3	12 CT	<b>RE-SORB®</b>
ZOETIS, INC	554.59010.3	72 CT	<b>RE-SORB®</b>
VETS PLUS, INC.	735.16000.3	3.5 OZ	<b>REVITILYTE™</b>
PARTNAR ANIMAL HEALTH	537.00015.3	6 X 75 GM	<b>RESULTZ™</b>

### IMMUNOSTIMULANTS

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

### LAXATIVES

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

### STERILE WATER

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

### UTERINE PREPARATIONS

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



**VITAMIN / MINERAL / SUPPLEMENT**

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



## PHARMACEUTICALS

Vitamin / Mineral / Supplement

### VITAMIN / MINERAL / SUPPLEMENT

MANUFACTURER	MVS#	SIZE	PRODUCT
<b>Multisupplement (Continued)</b>			
TECHMIX	693.10105.3	25 CT	RUMEN YEAST CAPS PLUS
PRN PHARMACAL	193.74450.3	16 OZ	STAT®
<b>Multi-supplement with microorganism</b>			
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"
<b>Niacin</b>			
VETS PLUS, INC.	735.13700.3	20 CT	NIACIN BOLUS
<b>Phosphorus</b>			
NEOGEN CORPORATION	193.61570.3	100 ML	PHOS-AID SOLUTION 20%
<b>Vitamin A,D</b>			
PHOENIX	193.86101.3	250 ML	VITAMIN AD INJECTION
<b>Vitamin A,D, and E</b>			
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
<b>Vitamin B Complex</b>			
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
<b>Vitamin B1 (thiamine)</b>			
PHOENIX	193.77600.3	100 ML	<b>THIAMINE HYDROCHLORIDE INJECTION (200 MCG/ML)</b>
PHOENIX	193.77601.3	100 ML	<b>THIAMINE HYDROCHLORIDE INJECTION (500 MCG/ML)</b>
<b>Vitamin B12 (cyanocobalamin)</b>			
PHOENIX	193.86260.3	100 ML	<b>VITAMIN B12 INJECTION (1000 MCG/ML)</b>
PHOENIX	193.86261.3	250 ML	<b>VITAMIN B12 INJECTION (1000 MCG/ML)</b>
PHOENIX	193.86262.3	500 ML	<b>VITAMIN B12 INJECTION (1000 MCG/ML)</b>
PHOENIX	193.86263.3	100 ML	<b>VITAMIN B12 (3000 MCG/ML)</b>
PHOENIX	193.86265.3	250 ML	<b>VITAMIN B12 (3000 MCG/ML)</b>
PHOENIX	193.86266.3	100 ML	<b>VITAMIN B12 (5000 MCG/ML)</b>
<b>Vitamin C</b>			
PHOENIX	193.86300.3	100 ML	<b>VITAMIN C</b>
PHOENIX	193.86301.3	250 ML	<b>VITAMIN C</b>
<b>Vitamin E</b>			
HUVEPHARMA, INC.	801.24500.3	250 ML	<b>VITAMIN E - 300</b>
<b>Vitamin E + selenium</b>			
MERCK ANIMAL HEALTH	349.08700.3	100 ML	<b>BO-SE®</b>
MERCK ANIMAL HEALTH	349.50000.3	100 ML	<b>MU-SE®</b>



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## HORMONES & ANALOGS

Gonadotropins | FSH | Oxytocin | Progestins | Prostaglandins



### HORMONES & ANALOGS

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

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**PREMISE DISINFECTANTS**

<i>MANUFACTURER</i>	<i>MVS#</i>	<i>SIZE</i>	<i>PRODUCT</i>
VETOQUINOL USA, INC.	733.25000.3	GAL	<b>16% DUAL-QUAT</b>
VIROX TECHNOLOGIES INC.	193.34100.3	GAL	<b>INTERVENTION® CONCENTRATE</b>
VIROX TECHNOLOGIES INC.	193.34101.3	5 GAL	<b>INTERVENTION® CONCENTRATE</b>
VIROX TECHNOLOGIES INC.	193.34103.3	55 GAL	<b>INTERVENTION® CONCENTRATE</b>
VIROX TECHNOLOGIES INC.	193.34106.3	GAL	<b>INTERVENTION® TB RTU</b>
VIROX TECHNOLOGIES INC.	193.34108.3	160 CT	<b>INTERVENTION® WIPES</b>
STERIS CORPORATION	163.24000.3	GAL	<b>LpH ag®</b>
ZOETIS, INC	275.28805.3	16 OZ	<b>NOLVASAN® S</b>
ZOETIS, INC	275.28810.3	GAL	<b>NOLVASAN® S</b>
ZOETIS, INC	275.28800.3	GAL	<b>NOLVASAN® SOLUTION</b>
PRN PHARMACAL	752.01700.3	GAL	<b>SYMPHENOL-3™</b>
BIO-TEK	801.15100.3	GAL	<b>TEK-TROL™</b>
VETOQUINOL USA, INC.	266.80000.3	10 LB	<b>TRIFECTANT®</b>
VETOQUINOL USA, INC.	266.80015.3	50 CT	<b>TRIFECTANT® TABLETS</b>





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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

**VBI**

VET BRANDS INTERNATIONAL, INC.®

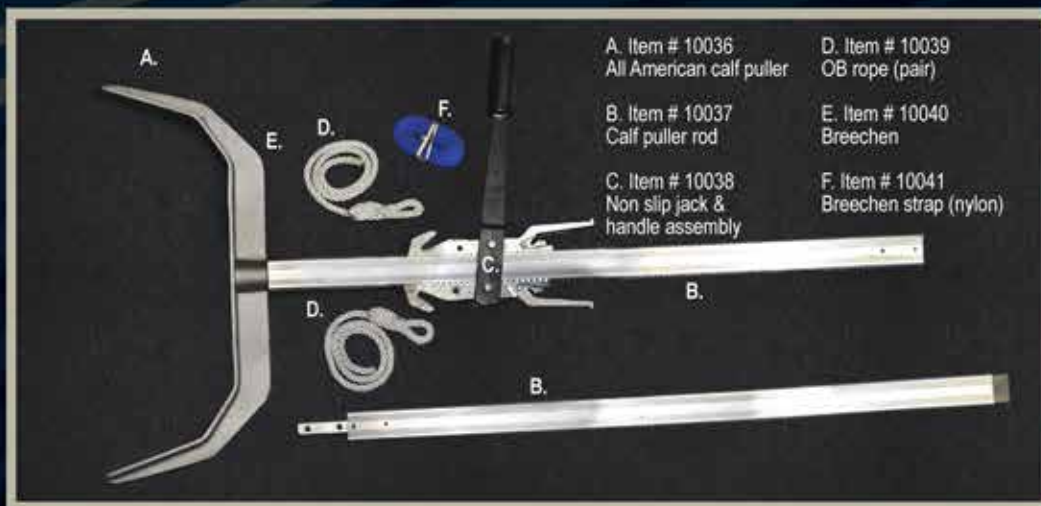
# All American CALF PULLER

Available exclusively through



"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

Phones: 954.392.8072 - Fax: 954.392.8076

## 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 WIRE 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



To order the **VetArt Vaccinators** contact your authorized distributor.



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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 J0109B
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 ANIMAL HEALTH	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 ANIMAL HEALTH	474.72200.2	MCCULLOCH CALF RESUSCITATOR
STONE MFG & SUPPLY COMPANY	665.00078.2	STONE CALF SAVER



# 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



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