

A range of options to help your herd stay healthy

Respiratory and Reproductive Protection



Vira Shield® 6+L5 HB

- Cytopathic (CP) BVD Type 1, noncytopathic (NCP) BVD Type 1, NCP BVD Type 2, IBR, BRSV, PI₃, 5-way Lepto (including Lepto hardjo-bovis)
- Dosage: two 5-mL doses 4 weeks apart, SubQ, annual revaccination
- First and only inactivated viral vaccine available in combination with a US origin Lepto hardjo-bovis—the most common cause of leptospirosis in US cattle¹



Titanium® 5

- IBR, BVD Type 1, BVD Type 2, PI₃, BRSV
- Dosage: 2-mL dose, SubQ, followed by second dose of Titanium BRSV 2 to 4 weeks after first dose, annual revaccination recommended. Carefully read and follow label directions prior to use in pregnant animals
- Proven protection against key respiratory viruses without post-vaccinal stress as measured by body temperature, feed intake, injection-site reaction, and white blood cells counts.²⁻⁵ Approved for use in pregnant cows



Titanium® 5 L5 HB

- IBR, BVD Type 1, BVD Type 2, PI₃, BRSV, 5-way Lepto (including cross protection against Lepto hardjo-bovis)
- Dosage: 2-mL dose, SubQ, followed by second dose of Titanium BRSV 2 to 4 weeks after first dose, annual revaccination. Carefully read and follow label directions prior to use in pregnant animals
- Proven protection against key respiratory and reproductive viruses, plus *Leptospira*, including Lepto Hardjo-bovis, without postvaccinal stress as measured by body temperature, feed intake, injection-site reaction, and white blood cells counts.²⁻⁵ Approved for use in pregnant cows



Titanium® 5 + PH-M

- IBR, BVD Type 1, BVD Type 2, PI₃, BRSV, *M. haemolytica*, *P. multocida*
- Dosage: 2-mL dose, SubQ, followed by second dose of Titanium BRSV and PULMO-GUARD PH-M 2 to 4 weeks after first dose, annual revaccination recommended. Carefully read and follow label directions prior to use in pregnant animals.
- Protects against the respiratory viruses and bacteria most commonly associated with BRD. Includes a low-reactive,⁶ water-soluble adjuvant, and is proven safe for calves 60 days of age or older



Master Guard® 10 HB

- IBR, BVD Type 1, BVD Type 2, PI₃, BRSV, 5-way Lepto (including cross protection against Lepto hardjo-bovis)
- Dosage: two 3-mL doses 2 to 4 weeks apart, SubQ or IM, annual revaccination recommended
- A unique combination of killed and MLV components to provide respiratory and reproductive vaccine protection for your herd—including pregnant cows. Studies show no significant impact on milk production in lactating Holsteins⁷



NUPLURA® PH

- *M. haemolytica*
- Dosage: 2-mL dose, SubQ, revaccinate annually
- First and only cattle vaccine developed in the US market using a combination of outer membrane protein and recombinant leukotoxin technology
- 10-day onset of immunity under NUPLURA



Quick Shield® IN IBR-PI₃

- IBR, PI₃
- Dosage: 2-mL dose, intranasally or SubQ, revaccinate annually
- Goes right to work at a common site of infection entry—the nostrils



ReproSTAR® L5 HB

- *L. hardjo*, *L. canicola*, *L. grippityphosa*, *L. icterohaemorrhagiae*, *L. pomona*
- Dosage: 2-mL dose, SubQ, booster in 4-6 weeks, revaccinate annually
- Lepto hardjo-bovis component was isolated from a US dairy experiencing poor conception rates

CALF DIARRHEA (SCOURS)



Scour Bos® 9

- 3 types of rotavirus, coronavirus, 4 isolates of *E. coli* bacteria, *C. perfringens* Type C
- Dosage: 2-mL dose, IM, 8-16 weeks prior to calving in year one. In subsequent years, give 1 annual dose of Scour Bos 9, 8-10 weeks prior to calving (revaccinate with 2-mL dose of Scour Bos 4 [rotavirus, coronavirus] in year one, 4 weeks prior to calving)
- Vaccinating pregnant cows helps build colostral antibodies that protect newborn calves from scours



Bovine Ecolizer® C20

- *C. perfringens* Type C, *E. coli*
- Dosage: administer 20 mL orally to calves less than 4 hours old
- Provides calves with direct, preformed antibody protection

PINKEYE



Pinkeye Shield® XT4

- *M. bovis*
- Dosage: 2-mL dose, IM, revaccinate annually
- Contains 4 field isolates of *M. bovis*—a leading cause of pinkeye

FOOTROT



Fusogard®

- *F. necrophorum*
- Dosage: 2-mL dose, SubQ, revaccinate in 3 weeks, revaccinate annually
- An economical, proactive prevention alternative to antibiotic treatment

CLOSTRIDIAL



Clostri Shield® 7

- *C. chauvoei*, *C. septicum*, *C. novyi*, *C. sordellii*, *C. perfringens* Types C and D
- Dosage: 2-mL dose, SubQ, booster in 2-4 weeks, revaccinate annually
- Proprietary dual-component adjuvant system



Clostridium Perfringens Type A Toxoid

- *C. perfringens* Type A
- Dosage: 2-mL dose, SubQ, booster in 2-4 weeks, revaccinate annually
- First conditionally licensed *C. perfringens* Type A vaccine for cattle
- *C. perfringens* Type A is associated with hemorrhagic bowel syndrome in cows and in cases where abomasal ulcers and hemorrhage are found in calves

Talk with your Elanco representative to learn more about Elanco vaccines, and work with your consulting veterinarian to incorporate these solutions into your dairy's vaccination protocols. The labels contain complete use information, including cautions and warnings. Always read, understand, and follow the label and use directions.

REFERENCES: **1.** Zuerner RL, et al. Repetitive sequence element cloned from *Leptospira interrogans* serovar Hardjo (Type: hardjo-bovis) provides a sensitive diagnostic probe for bovine leptospirosis. *J Clin Microbiol.* 1988;26:2495-2500. **2.** Terhaar B. 2001. Study No. TR-13. Agri Laboratories Ltd. **3.** Terhaar B. 1999. Study No. TR-04. Agri Laboratories Ltd. **4.** Terhaar B. 1998. Study No. TR-03. Agri Laboratories Ltd. **5.** Terhaar B. Study No. TR-11. Agri Laboratories Ltd. **6.** Elanco Animal Health 2011, Data on File. Porter M. Field safety evaluation of bovine rhinotracheitis virus diarrhea-parainfluenza3-respiratory syncytial virus vaccine, modified live virus, APHIS product code 1181.20 (establishment 213) in combination with Mannheimia haemolytica-Pasteurella multocida bacterin-toxoid, APHIS product code: G935.04 (establishment 315). Protocol No. 2011-01, Rev. 02. **7.** Elanco Animal Health 2000, Data on File. Study TR-10, Master Guard Preg 5: Effect of Vaccination on Milk Production in Dairy Cattle.

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