

**Bovine Rhinotracheitis-
Virus Diarrhea Vaccine,
Modified Live Virus, *Campylobacter*
Fetus-*Leptospira Canicola-
Grippotyphosa-Hardjo-
Icterohaemorrhagiae-
Pomona* Bacterin**

Express® FP 3-VL5

50 Doses/Rehydrate with 100 mL

Express® FP 3-VL5

This package contains one 50 dose vial of MLV vaccine and one 100 mL vial of bacterin diluent.

Note: It is possible that healthy appearing cattle can be persistently infected with or incubating virulent BVD virus at the time of vaccination. In view of these findings and suggested causes, BVD vaccine is contraindicated in persistently infected cattle and use should be limited only to healthy, immunocompetent, unstressed, nonpregnant cattle.



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Vetmedica, Inc.
St. Joseph, MO 64506
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Indications: For the vaccination of healthy cows and replacement heifers prior to breeding to prevent persistently infected calves caused by Bovine Virus Diarrhea Types 1 and 2. For the vaccination of healthy, susceptible cattle as an aid in the reduction of respiratory disease caused by Infectious Bovine Rhinotracheitis (IBR) and Bovine Virus Diarrhea (BVD) Types 1 and 2, as an aid in the reduction of infertility, delayed conception, or abortion caused by *Campylobacter fetus* var. *venerealis* and leptospirosis caused by 5 serovars of *Leptospira* (*L. canicola*, *L. grippotyphosa*, *L. hardjo*, *L. icterohaemorrhagiae*, and *L. pomona*).

Composition: The product in the amber glass vial contains IBR, BVD Types 1 and 2 modified live viruses. The plastic vial contains *C. fetus* and the *Leptospira* organisms listed above, in an adjuvant system. Contains neomycin as a preservative.

Directions: Rehydrate the vaccine by adding the accompanying killed bacterin diluent to the vaccine vial. Shake well.

Dosage: Using aseptic technique, inject 2 mL subcutaneously in front of the shoulder and midway of the neck, away from the suprascapular lymph node. If initial vaccination, repeat with *C. fetus* and *Leptospira* fractions (Citadel™ VL5) in 14-28 days. Calves vaccinated before 6 months of age should be revaccinated at 6 months or at weaning. A 2 mL booster dose is recommended once annually. Cows and Heifers: Using aseptic technique, annually inject a single 2 mL dose subcutaneously at or about 4 weeks prior to breeding. If initial vaccination, see above.

Precautions: Store out of direct sunlight at 35–45°F (2–7°C). Avoid freezing. Use entire contents when first opened. Burn containers and all unused contents. Do not vaccinate within 21 days before slaughter. Stressed cattle should not be vaccinated. Do not use in pregnant cows or in calves nursing pregnant cows. Anaphylactoid reactions may occur. Antidote: Epinephrine.

Warning: Animal inoculation only. Accidental injection to humans can cause serious local reactions. Contact a physician immediately if accidental injection occurs.

- 1 K. Fairbanks, J. Campbell, C. Chase, et al. Rapid Onset of Protection Against Infectious Bovine Rhinotracheitis with a Modified Live Multivalent Vaccine. *Veterinary Therapeutics*, Volume 5, No. 1, Spring 2004.
- 2 K. Brock, et al. Rapidity of protection following vaccination against BVDv. *BVD Control: The Future is Now Conference*, January 2006.

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