**Bovine Rhinotracheitis-Virus Diphtheria-Parainfluenza3-Respiratory Syncytial Virus Vaccine**

**Modified Live Virus**  
Campylobacter Fetus-Leptospira Canicola-Grippovirus-Parochoaomorphagae-Pomona Bacterin

**Bovi-Shield GOLD® FP 5 VLS HB**

**INDICATIONS:** Bovi-Shield GOLD FP 5 VLS HB is for vaccination of healthy cows and heifers prior to breeding to prevent persistently infected calves caused by BVD Types 1 and 2, and as an aid in preventing abortion caused by infectious bovine rhinotracheitis (IBR, bovine herpesvirus Type 1) virus; BVD virus infection caused by BVD Types 1 and 2; parochoaomorphagae (PR); and bovine respiratory syncytial virus (BRSV); BVD Type 2; and neonatal septicemia caused by Leptospira canicola, L. grippotyphosa, L. hardjo, L. icterohaemorrhagiae, and L. pomona.

A 12-month duration of immunity has been demonstrated against IBR-induced abortion and persistently infected calves caused by BVD Types 1 and 2. In addition, Bovi-Shield GOLD FP 5 VLS HB is especially recommended to prevent establishment of L. hardjo in the udder, thus shielding the udder for at least 12 months. Vaccination with this product also prevents establishment of L. hardjo in the genital tract and aids in preventing infection of the fetus.

Bovi-Shield GOLD FP 5 VLS HB may be administered to pregnant cattle provided they were vaccinated, according to label directions, with any Bovi-Shield GOLD FP or PregGuard® GOLD FP vaccine within the past 12 months. Bovi-Shield GOLD FP 5 VLS HB may also be administered to calves nursing pregnant cows whose dams were vaccinated within the past 12 months as described above. To help ensure safety in pregnant cattle, heifers must receive at least 2 doses of any Bovi-Shield GOLD FP or PregGuard® GOLD FP product with the second dose administered at least 30 days prebreeding.

**PRODUCT DESCRIPTION:** The freeze-dried vaccine is a preparation of modified live virus (MLV) strains of IBR, BVD Types 1 and 2, PRV, and BRSV. The liquid fraction contains a specially prepared, inactivated and adjuvanted culture of L. icterohaemorrhagiae together with inactivated and adjuvanted cultures of Campylobacter fetus, L. pomona, L. grippotyphosa, L. canicola, and L. icterohaemorrhagiae.

**DIRECTIONS:**

- *General Directions:* Vaccination of healthy cattle is recommended.
- *Aseptically rehydrate the freeze-dried vaccine with the liquid bacterin provided, shake well, and administer 5 mL subcutaneously or intramuscularly.
- *In accordance with Beef Quality Assurance guidelines, this product should be administered SC in the neck."

**Revaccination:**

- *Primary Vaccination:* Administer a single 5-mL dose to all breeding cows approximately 1 month prior to breeding or being added to the herd, followed by a single dose of Sputnic® VLS 4-6 weeks later. To help ensure safety in pregnant cattle, heifers must receive at least 2 doses of any Bovi-Shield GOLD FP or PregGuard® GOLD FP product with the second dose administered at least 30 days prebreeding.
- *Revaccination:* Historically, this product recommended annual revaccination. The need for annual booster vaccinations has not been established for this product; consult with a veterinarian is recommended. Good animal husbandry and herd health management is recommended.

**PRECAUTIONS:**

- Do not use in pregnant cows (abortions can result) unless they were vaccinated, according to label directions, with any Bovi-Shield GOLD FP or PregGuard® GOLD FP vaccine within the past 12 months. Do not use in calves nursing pregnant cows unless their dams were vaccinated within the past 12 months as described above.
- Do not vaccinate calves under 3 months of age.