

Campylobacter Fetus-Leptospira Canicola-Grippotyphosa-Hardjo- Icterohaemorrhagiae-Pomona Bacterin

Spirovac® VL5

INDICATIONS: Spirovac VL5 is for vaccination of healthy cattle, including pregnant cows and heifers, over 4 weeks of age, as an aid in preventing disease caused by the above organisms. In addition, it is especially recommended to prevent establishment of *L. hardjo* in the kidney, and thus shedding in the urine, for at least 12 months. Spirovac VL5 also prevents the establishment of *L. hardjo* in the genital tract and aids in preventing infection of the fetus.

PRODUCT DESCRIPTION: Spirovac VL5 contains a specially prepared, inactivated and adjuvanted unique strain of *Leptospira borgpetersenii* serovar hardjo-bovis together with inactivated and adjuvanted cultures of *L. pomona*, *L. grippotyphosa*, *L. canicola*, *L. icterohaemorrhagiae* and *Campylobacter fetus*.

DIRECTIONS:

General Directions: Vaccination of healthy cattle, including pregnant cows and heifers, is recommended. Shake well. Aseptically administer 5 mL subcutaneously or intramuscularly high on the side of the neck.

Primary Vaccination: Healthy cattle should receive 2 doses administered 4–6 weeks apart with booster doses given as necessary. When used as an aid in preventing genital or fetal infection, booster doses should be completed at least 2 weeks prior to breeding. Primary vaccination with this product in calves from 4 weeks of age with a second dose 4–6 weeks later will prevent infection, colonization and subsequent shedding of serovar hardjo-bovis, a source of further infection in the herd.

Revaccination: Annual revaccination with a single dose is recommended. Include all bulls in programs of vaccination. As part of normal biosecurity procedures, all replacement animals should begin a two-dose course of vaccination upon arrival. Good animal husbandry and herd health management practices should be employed.

PRECAUTIONS:

Store away from light at 2°–7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do not freeze.

Use entire contents when first opened.

Sterilized syringes and needles should be used to administer this vaccine.

Do not vaccinate within 21 days before slaughter.

Occasional hypersensitivity reactions may occur up to 18 hours postvaccination. Owners should be advised to observe animals during this period. While this event appears to be rare overall, dairy cattle may be affected more frequently than other cattle. Animals affected may display excessive salivation, incoordination, and/or dyspnea. Animals displaying such signs should be treated immediately with epinephrine or equivalent. In nonresponsive animals, other modes of treatment should be considered.

As with many vaccines, anaphylaxis may occur after use. Initial antidote of epinephrine is recommended and should be followed with appropriate supportive therapy.

This product has been shown to be efficacious in healthy animals. A protective immune response may not be elicited if animals are incubating an infectious disease, are malnourished or parasitized, are stressed due to shipment or environmental conditions, are otherwise immunocompromised, or the vaccine is not administered in accordance with label directions.

Technical inquiries should be directed to Zoetis Inc. Veterinary Services, (888) 963-8471 (USA), (800) 461-0917 (Canada).

For veterinary use only

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