

Vib Shield® Plus

Campylobacter Fetus Bacterin

For use in healthy cattle as an aid in the prevention of vibriosis caused by *Campylobacter fetus*.

Product Numbers

Vib Shield® Plus

140 - 100 mL - 50 doses

142 - 20 mL - 10 doses

- **One Dose Protection** — Xtend® III, an exclusive adjuvant by Novartis, maintains higher and longer lasting antibody titers than aluminum hydroxide adjuvanted bacterins. **Vib Shield Plus** protected 100 percent of cows challenged with 2 strains of *C. fetus* while the controls showed only a 67 percent conception rate after 1 year.
- **Less Stress** — One dose and year-long protection eliminates repeated roundups and extra stress on animals.
- **Convenient** — Work your cattle at your convenience. Vaccinate within 12 months prior to breeding and eliminate handling your cattle twice.

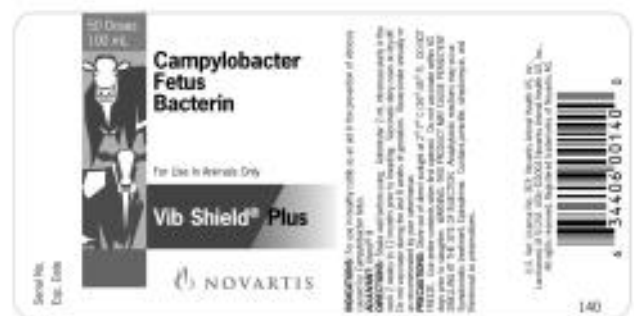


Vib Shield® Plus

ADJUVANT: Xtend® III

DIRECTIONS: Shake well before using. Administer 2 mL intramuscularly in the neck 2 weeks to 12 months prior to breeding. Vaccinate dairy cows at dry-off. Do not vaccinate during the last 8 weeks of gestation. Revaccinate annually or as recommended by your veterinarian.

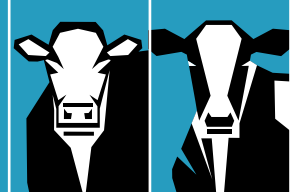
PRECAUTIONS: Store out of direct sunlight at 2°-7° C (35°-45° F). DO NOT FREEZE. Use entire contents when first opened. Do not vaccinate within 60 days prior to slaughter. **WARNING: THIS PRODUCT MAY CAUSE PERSISTENT SWELLING AT THE SITE OF INJECTION.** Anaphylactic reactions may occur. Symptomatic treatment: Epinephrine. Contains penicillin, streptomycin, and thimerosal as preservatives.



Customer Service
(800) 843-3386

www.livestock.novartis.com

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Vibrin is a registered trademark of Pfizer Inc.
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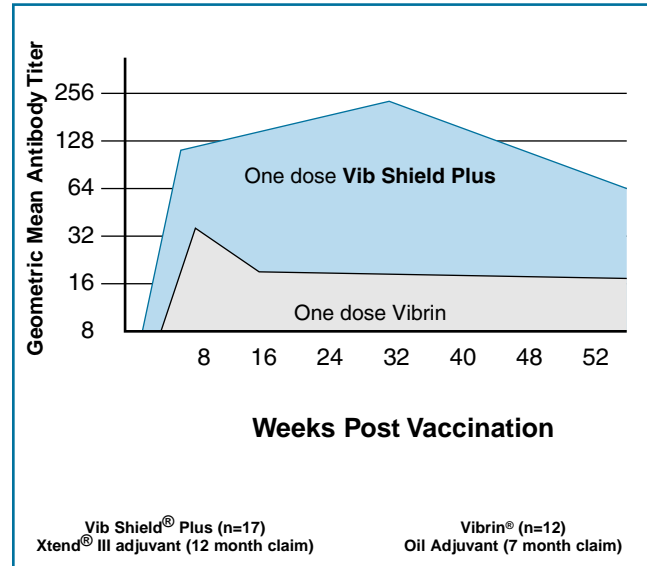
Technical disease information

Campylobacteriosis

Bovine genital campylobacteriosis, previously known as vibriosis, is a venereal disease of cattle caused by *Campylobacter fetus*. The disease is spread from bull to cow and cow to bull during breeding. It can also be spread through artificial insemination if the semen or pipettes are contaminated.

Infection with *Campylobacter* is subclinical and restricted to the reproductive mucous membranes of breeding bulls and cows. Uterine infections usually destroy the embryo at its earliest stages. However, in some instances the embryo survives, becomes infected and is aborted in the second trimester of pregnancy. The presence of the disease should be suspected when conception rates for a herd drop below 90 percent. Definite diagnosis can be made by identifying the organism in the mucus from the cow's reproductive tract or in preputial fluid from the infected bull.

Campylobacter (Vibrio) fetus antibody titer comparison in cattle



The above study illustrates the ability of the Xtend III adjuvant in **Vib Shield Plus** to induce titer responses far superior to those induced with the competitor's product. The duration of immunity maintained with **Vib Shield Plus** allows the producer to vaccinate anytime, from two weeks to 12 months prior to breeding.