

STOP STRESSING OUT ALREADY STRESSED CATTLE.

KEY TAKEAWAYS

**MODIFIED-LIVE BVD
VACCINES IN HIGH-RISK
CATTLE CAN HAVE A
NEGATIVE IMPACT ON
THEIR IMMUNE SYSTEM.**

**KILLED BVD VACCINES
DON'T TAX THE IMMUNE
SYSTEM OF HIGH- STRESSED
CALVES THE WAY
MLV BVD VACCINES DO.**

**PRO-BAC™ 4 IBRk + BVDk
IS A PRODUCT
DESIGNED
BY CATTLEMEN
FOR CATTLEMEN.**



DON'T MAKE THE PROBLEM WORSE

Stressed cattle have elevated blood cortisol levels which negatively affects their immune system and impacts their ability to fight disease. Modified-live virus (MLV) vaccines work by infecting an animal's cells in order to reproduce. Modified-live Bovine Viral Diarrhea (BVD) specifically reproduces in immune tissues which causes a drop in white blood cell count, further reducing the animal's disease-fighting ability.



CONSIDER YOUR OPTIONS

Most calves that are transitioning from the farm have already been exposed to BVD either through prior vaccination(s) or natural exposure. Subsequently, the objective for the protocol used can shift from establishing immunity to boosting it. Killed BVD-containing vaccines do not infect the calf's cells and do not have the same negative effect like MLV BVD vaccines.

In fact, recent research (Falkenberg, et. al. 2023) has shown that cattle which receive a killed BVD vaccine after they have been given a MLV BVD vaccine (or exposed to BVD) at or before weaning, showed a superior immune response to cattle that received another dose of MLV vaccine.



A UNIQUE SOLUTION

Following years of buying high-risk cattle and treating them even after vaccination, three Texas cattlemen with the know-how and motivation set out to develop a better solution. In the end, they created a safe and effective line of vaccines specifically developed to deliver better, more relevant protection for high- and ultra high-risk cattle. Pro-Bac 4 + IBRk & BVDk contains a killed BVD to provide the protection you need without the added risk of MLV.



PRO-BAC™ 4 + IBRk & BVDk

with REVEAL ATS™

THE MOST COMPREHENSIVE BOVINE RESPIRATORY DISEASE (BRD) VACCINE FOR HIGH-RISK, STRESSED CATTLE

A VACCINE DESIGNED SPECIFICALLY FOR

SALE BARN/ MIXED-ORIGIN CATTLE • LONG-HAUL CATTLE • DROUGHT-DERIVED CATTLE • EARLY-WEANED CATTLE

CHECK ALL THE BOXES WITH ONE SHOT

KILLED VIRAL ANTIGENS

Bovine Viral Diarrhea (BVD)
Infectious Bovine Rhinotracheitis (IBR)

KILLED BACTERIAL ANTIGENS

Mannheimia haemolytica Type A1
Mannheimia haemolytica Type A6
Pasteurella multocida
Histophilus somni

PRO-BAC IS THE ONLY PRODUCT LINE ON THE MARKET THAT CONTAINS MANNHEIMIA HAEMOLYTICA TYPE A6 WHICH CAN ACCOUNT FOR UP TO 30% OF *M. HAEMOLYTICA*-RELATED BRD CASES.

WHY DOES IT WORK?

Reveal ATS, our proprietary adjuvant acts as an Antigen Transport System (ATS) which optimizes the presentation and delivery of antigens, while trapping endotoxin so it isn't freely released into the bloodstream. The result is unparalleled bacterial protection without the harsh side effects you would expect from a multivalent Gram-negative vaccine.



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