

PROTECT YOUR CATTLE AND YOUR **BOTTOM LINE.**





Relevant Science. More Options. Real-World Protection.

Bovine Respiratory Disease (BRD), commonly referred to as “shipping fever,” is the costliest disease complex affecting stocker and feeder cattle in the United States. Bacterial pneumonia is the most significant cause of morbidity and mortality associated with the disease.

Proper vaccination against the most common bacterial contributors to BRD is one of the key management practices relied on to build immunity within a herd in an effort to keep cattle healthy so they can be productive. A lot of variables need to be considered when building the right vaccination protocol for your operation. But, at its core, effective vaccination starts with selecting the right products, giving them the right way and at the right time.

Our PRO-BAC™ vaccines were developed specifically for stocker and feeder cattle and offer the most complete protection against five of the most common BRD-causing bacteria:

- *Mannheimia haemolytica* Type A1 (Mh A1)
- *Mannheimia haemolytica* Type A6 (Mh A6)
- *Pasteurella multocida* (Pm)
- *Histophilus somni*/*Haemophilus somnus* (Hs)
- *Salmonella typhimurium* (St)

WHY CHOOSE PRO-BAC VACCINES?

QUALITY BACTERIAL ANTIGENS

Our antigens are grown in specific conditions to maximize expression of all virulence factors, which optimizes post-injection antigen presentation in order to elicit a stronger immune response to better protect your cattle against the bacterial challenges they may face later on – whether that is on the ranch or in the feedlot.

CONVENIENCE

Available in both 50-dose and 100-dose bottles, PRO-BAC vaccines come ready to use, require no chute-side mixing and are administered in a BQA-friendly 2.0 mL subcutaneous (SQ) dose in the side of the neck.

VERSATILITY

Choose the right antigen combination to plug into your current vaccination protocol to fill the gaps other vaccines aren't covering to set your calves up to perform on the ranch and in the feedlot.

EFFICACY

Our unique manufacturing process and proprietary adjuvant system (Reveal ATS™) results in vaccines that provide a high level of protection against the costliest BRD-causing bacteria without the harsh side effects often associated with the vaccination of mid- to high-risk cattle.

CHOOSE THE RIGHT ANTIGEN COMBINATION TO MEET YOUR OPERATION'S SPECIFIC NEEDS.

	Mh A1	Mh A6	Pm	Hs	St	IBR	BVD
PRO-BAC™ 2	✓	✓					
PRO-BAC™ 3	✓	✓	✓				
PRO-BAC™ 4	✓	✓	✓	✓			
PRO-BAC™ 4 +IBRK & BVDK	✓	✓	✓	✓		✓	✓
PRO-BAC™ 5	✓	✓	✓	✓	✓		



To learn more about Bimeda Biologicals products and services, go to bimedabiologicals.com