

“ As a producer, trying many different vaccines and fly control management protocols with poor results costs critical time and money. **After several years of battling Pink Eye and Foot Rot epidemics we found a solution.** Vaccinating with ENDOVAC-Beef has given me the positive results I need. Before the incidence of Pink Eye was 30%-50% of the herd. **After using ENDOVAC-Beef we dramatically reduced the incidence to near 0%** and minimal cases of Foot Rot. As a result, the few cases of Pink Eye that we do see are much easier to treat and result in little to no damage to the eye. We use an aggressive ENDOVAC-Beef protocol and will continue to do so.”

- Mike Colton, Former President of the Baker City Oregon Chapter Cattlemen's Association & State Wolf Committee Member



Cross protection with one vaccine.

To learn more, visit us at www.ENDOVACBeef.com, call 800-944-7563, or speak with your veterinarian.

*Off Label Field Usage and Data on File at IMMVAC Inc.



IMMVAC
Superior Science

We all know about the nightmare of Pinkeye in cattle. Discounts at the sale barn, reduced weaning weights, stress, loss of eyes, labor \$'s spent treating, and ONE GIANT HEADACHE that never seems to go away.

Pinkeye in cattle is known as Infectious Bovine Keratoconjunctivitis (IBK). The main culprit is *Moraxella bovis*, a gram-negative bacteria that has lots of different field strains. All of these strains have historically made it hard to vaccinate against, with all commercial vaccines containing only a few field strains. These commercial vaccines can work very well, if it happens to be the strain you have, but who is always that lucky? Just because you happened to have a strain that you were protected against last year, doesn't mean that your herd will be exposed to the same strain next year.

To further complicate the problem, it is now known that *Moraxella ovis* & *Moraxella bovoculi* are commonly associated with (IBK). While the role of each is debated in directly causing (IBK), most practicing Veterinarians can tell you a horror story or two associated with these pathogens. There are not any commercially available vaccines for vaccination against these as with *Moraxella bovis*. This leaves many Veterinarians scrambling to make autogenous vaccines specific for each herd. While these can be effective, they typically are not made until after a herd has clinical symptoms. Additionally there is no guarantee that you will have the same strain next year and that the *Moraxella* type you are dealing with does not become resistant to the autogenous vaccine.

Resistance, number of strains, and the inconvenience/cost of autogenous all contribute to many producers feeling hopeless. However, there is another option that many producers are having great success with. Mike Colton who gives the attached testimonial is one of those capitalizing on this new technique. He is using Endovac-Beef, (Endovac-Dairy is the same technology), to get broad spectrum Pinkeye Control. The reason this works is because all *Moraxella*, whether *bovis*, *ovis*, or *bovoculi*, are gram-negative bacteria.

Protecting against virtually all gram-negative bacteria is what Endovac was designed to do! The antigen in Endovac is just the CORE common to all gram-negatives. This was achieved by creating a bacterin devoid of all endotoxin on the outside of a gram negative bacterin, allowing for Core Antigen Technology. Endovac has an Immune Stimulant in it that boosts the Immune Systems' Lymphocytes & Antibodies across the board. This allows for an overall healthier animal that can respond better to all sorts of infections, including Pinkeye.

What is also wonderful about this vaccine is that the absence of endotoxins makes it Exceptionally Safe! It is a lot smoother than the typical Pinkeye vaccine, because it has NO Active Endotoxin. This is why producers often are seen using it on calves. They also do not see any anaphylaxis (negative reactions) when vaccinating calves. Endovac does not contribute to endotoxin stacking.

Now here is the disclaimer...Endovac is not labeled for *Moraxella* and we do not have any challenge studies to prove why it works. What we can tell you is that many, like Mike Colton, claim to have seen it work time and time again. We want you to be aware that this usage is out there and additionally if you break down the science...the reason it works makes sense!

