

BENEFITS OF CUSTOM MADE VACCINES:

- Utilize multiple isolates to develop a unique combination product
- Potential for significant cost savings on vaccine & labor
- Keep preventive health program up to date using most current isolates
- Mirror the real-world disease challenge by using specific disease strains
- Easy handling, excellent syringeability
- Approved for 21 day pre-slaughter withdrawal

Newport Laboratories, Inc. utilizes cutting-edge PINPOINT Technologies to create Custom Made Vaccines targeting your specific needs. From the latest in isolate analysis and selection techniques to proprietary manufacturing and adjuvanting systems, our Custom Made Vaccines are the epitome of science-based vaccine technology.



MORAXELLA BOVIS | MORAXELLA BOVOCULI
PINKEYE
A NEW ERA OF VACCINE TECHNOLOGY



Call Newport Laboratories, Inc. today and put Custom Made Vaccines to work for you.

800-220-2522 | www.newportlabs.com



Custom Made Vaccines are sold exclusively through veterinarians.

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References:

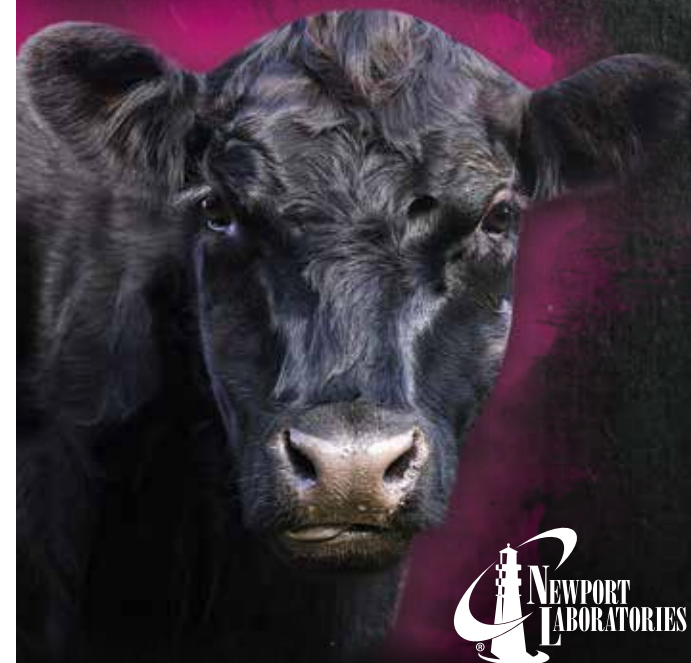
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DISEASE IMPACT:

Pinkeye (infectious bovine keratoconjunctivitis) associated with *Moraxella bovis* and *Moraxella bovoculi* is a major factor affecting cattle health and performance. Calves suffering from pinkeye weigh an average of 19.6 lbs less than healthy calves at weaning.¹ Pinkeye associated with *M. bovoculi* is becoming a year-round problem.

Pinkeye costs producers an estimated \$150 million every year due to decreased weight gain, decreased milk production, and treatment costs. Additionally, affected animals are often heavily discounted by buyers.

STRAIN VARIATION:

Strain variation is an ongoing challenge when vaccinating for pinkeye with a commercial product.

- Commercial *Moraxella bovis* products only contain specific strains that may or may not be the same strains your cattle are facing.
- Commercial products do not contain *M. bovoculi*.

These two factors make pinkeye a perfect candidate for a Custom Made Vaccine.

CUSTOM MADE VACCINES:

Custom Made Pinkeye Vaccines are manufactured using the specific disease causing organism(s) circulating in your herd or the immediate area. Newport Laboratories, Inc. utilizes cutting-edge PINPOINT[®] diagnostic and production technologies to create a Pinkeye vaccine targeting your specific needs.

Newport Laboratories, Inc. cutting-edge molecular diagnostics technology will help identify and genetically characterize the organisms that are causing Pinkeye in your herd(s). Our veterinary technical service team will then help you determine which isolate(s) to include in your Custom Made Vaccine.

SAFETY PROTOCOLS:

Newport Laboratories, Inc. Custom Made Vaccines are manufactured following USDA approved production outlines. All of our Custom Made Vaccines are subject to strict safety and sterility testing as required by the USDA in the Code of Federal Regulations.

NON-ADJACENT HERD USE:

Custom Made Vaccines can be used at multiple production sites and with multiple clients through USDA Nonadjacent Herd Use approval. This allows veterinarians greater flexibility with their Custom Made Vaccine. Newport Laboratories, Inc. will assist in this process and file the appropriate forms with state veterinarians for approval.

GENE SEQUENCING SHOWS STRAIN VARIATION AT THE C-TERMINUS OF RTX TOXIN

Analysis performed by Newport Laboratories. Data on file.

