

Pinkeye Problem? Pinkeye Solution!

MAXI/GUARD[®]

delivers twice the pinkeye
protection with
single dose convenience



Broad coverage

8 different M. bovis isolates
Over 90% efficacy

Easy syringeability

Approved for Subcutaneous Administration

Minimal injection site reactions

Strong safety record

Extremely low endotoxin levels

Safe for lactating cattle

No milk withdrawal

Effective for use in the face of an outbreak

Single dose protection



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MAXI/GUARD[®]
A Veterinary Gold Standard



MAXI/GUARD® Pinkeye Bacterin

- Broad Coverage - Over 90% Efficacy
- Easy Syringability
- Minimal Injection Site Reactions
- Strong Safety Record

Most Common Questions Asked About MAXI/GUARD® Pinkeye

1. How can MAXI/GUARD® Pinkeye bacterin deliver 90+% protection with only 1 dose?

Most of our U.S. cattle harbor *M.bovis* in their respiratory tract. Subsequently, when we administer the 1st dose of our better-developed and broader spectrum *M.bovis* bacterin, we experience an amnesic (memory) response from this initial respiratory exposure.

2. Why don't you use an oil adjuvant? Aren't the latest oil adjuvants state-of-the-art?

Oil adjuvants are of benefit when required. With efficacy over 90%, we obviously don't need an oil adjuvant. There are several down sides to oil adjuvants, including a higher incidence of injection site reactions, granulomas and abscesses. In addition, biologics that contain oil adjuvants are much tougher to get into and out of a syringe. Less discussed and far less understood is the fact that oil adjuvants may exacerbate the effects of endotoxin. This is especially critical in dairy herds where we must minimize any post-vaccination milk reduction.

3. What role do flies have in causing pinkeye?

The face fly is a common mechanical vector that spreads the disease from animal to animal. Also the tongue of the face fly looks much like a rasp under a microscope. When flies feed off the lacrimal fluids at the eye, they sometimes scratch the cornea. This initial lesion can reduce the eye's defenses to disease and allow the infection to begin.

4. When should I give your vaccine and how long should I expect to receive protection?

Administer at least 30 days before the onset of your normal pinkeye season challenge. This will allow for the time required to deliver a peak immune response. You should receive protection for an entire season and you should booster the following year.

5. Can I get by with 1 dose?

In most seasons you can. We recommend giving 1 dose in herds that have not had a bad pinkeye history. If they start to break at the onset of any high challenge conditions (heat, dust, flies), give them a 2nd dose at that time. Give those that already have pinkeye another dose along with an appropriate antibiotic.

6. Normally, biologics are used weeks to months prior to exposure, so why can MAXI/GUARD® Pinkeye Bacterin be used effectively in the face of an outbreak?

Vaccination in the "face of an outbreak" has merit for pinkeye disease control. Many veterinarians anecdotally report that it is "not too late to vaccinate". Reports suggest that you can shorten the duration of the disease, shorten the corneal healing interval, reduce the size of the scar and help prevent subsequent spread in the herd. Our bacterin stimulates IgG antibodies in the lacrimal fluids (tears) directly proportional to those stimulated in the blood serum.

7. Is MAXI/GUARD® safe for lactating or pregnant cattle?

Yes, with our low, free endotoxin levels, you should experience very little milk reduction. We do not use antibiotic preservatives and there is no milk withdrawal. Vaccinating during any stage of gestation is also fine.

8. Why is it important to work with a company with reputable diagnostic and autogenous services?

For the past few years we have seen an increased incidence of pinkeye caused by the coccoid shaped *Moraxella bovoculi*. Currently, no commercial pinkeye bacterin provides protection against *M. bovoculi*. The best method of prevention in these cases is to utilize a reputable autogenous program combined with a quality diagnostic laboratory. We have been providing such a program for over 30 years and have many, many success stories of solving pinkeye problems caused by coccoid organisms.

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