Clostridia and *Moraxella Bovis* (Pinkeye) Vaccine

**Description**
Clostridium Chauvoei-Septicum-Novyi-Sordellii-Perfringens Types C & D-Moraxella Bovis Bacterin-Toxoid. Alpha-7/MB™-1 bacterin-toxoid is prepared from chemically inactivated cultures of the above organisms with a special DD-2™ adjuvant system to maximize immune response. Contains gentamicin as a preservative.

**Features**
Ready to use; single dose.
Proven coverage for 7-way Clostridia and *Moraxella bovis* (Pinkeye).
Proven duration of immunity (DOI) under direct challenge — Clostridium Chauvoei and *Cl Sordellii* 6 month challenge; *Moraxella bovis*, 4 month challenge.
Moraxella bovis fraction, in controlled studies under field conditions, gave over 90% efficacy.
Moraxella bovis vaccine fraction expresses I and Q phase pilus antigens.
DD-2 adjuvant stimulates a high degree, long duration protection.
Low volume 2 mL dose.
Sub-Q administration.

**Benefits**
Single dose.
Meets Beef Quality Assurance guidelines.
Eliminates damage resulting from IM administration.

**Advantages**
Alpha-7/MB-1 is a unique product providing proven protection for 7-way clostridia and *Moraxella bovis* (Pinkeye) with a single injection.

**Dosage & Administration**
Using aseptic technique inject a single 2 mL dose Sub-Q to cattle 2 months of age or older, prior to the onset of pinkeye season. Calves vaccinated under 3 months of age should be revaccinated at weaning or at 4-6 months of age. A 2 mL booster dose is recommended annually.

**Precautions**
Store at 35° - 45°F (2° - 7° C). Avoid freezing. Shake well before using. Use entire contents when first opened. Do not vaccinate within 60 days of slaughter. The use of a biological product in lactating dairy cattle can cause reduced milk production. Swelling at the injection site will often occur and may persist. Anaphylactoid reactions may occur. Antidote: Epinephrine.

**Uses**
Alpha-7/MB-1 is recommended for vaccination of healthy, susceptible cattle, two months of age or older, as an aid in the reduction of diseases caused by *Cl chauvoei*, *Cl septicum*, *Cl novyi*, *Cl sordellii*, *Cl perfringens* Types C and D toxins and *Moraxella bovis*. Immunity may be provided against the beta and epsilon toxins elaborated by *Cl perfringens* Type B. This immunity is derived from the combination of Type C (beta) and Type D (epsilon) fractions.

**Warning**
Animal inoculation only. Accidental injection in humans can cause serious local reactions. Contact a physician immediately if accidental injection occurs.

**Product Information**

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<th>Size</th>
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<td>Alpha-7/MB™-1</td>
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**Highlights**
- Single dose
- Combines 7-way clostridia and *Moraxella bovis* (pinkeye) in a one dose vaccine
- Proven Duration of Immunity
- Unique DD-2 adjuvant
- Sub-Q administration
- Low volume 2 mL dose
- Use in all cattle over 2 months of age
Indications: Recommended for the vaccination of healthy, susceptible cattle as an aid in the reduction of diseases caused by the Clostridial organisms listed on the center panel, and for the prevention and control of pinkeye in healthy cattle caused by Moraxella bovis. Immunity may be provided against the beta and epsilon toxins elaborated by Clostridium perfringens Type B. This immunity is derived from the combination of Type C (beta) and Type D (epsilon) fractions.

Composition: Prepared from chemically inactivated cultures of the above organisms with the special DD-2 adjuvant system to maximize immune response. Contains gentamicin as a preservative.

Dosage: Inject a single 2 mL dose subcutaneously to cattle 2 months of age or older, prior to the onset of pinkeye season. Calves vaccinated under 3 months of age should be revaccinated at weaning or at 6-8 months of age. A 2 mL booster dose is recommended annually.

Precautions: Store at 35–45°F (2–7°C). Avoid freezing. Shake well before using. Use entire contents when first opened. Do not vaccinate within 60 days before slaughter. The use of a biological product in lactating dairy cattle can cause reduced milk production. Injection site swellings will often occur that may persist. Anaphylactoid reactions may occur.

Antidote: Epinephrine.

Warning: Animal inoculation only. Accidental injection to humans can cause serious local reactions. Contact a physician immediately if accidental injection occurs.

Boehringer Ingelheim Vetmedica, Inc.
St. Joseph, Missouri 64506 U.S.A.
U.S. Veterinary License No. 124
Code No.-371

Boehringer Ingelheim

Alpha Vaccines

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