

## Culmen Hoof Treatment for Hoof Rot



### **PREAMBLE:**

Foot rot is a disease in cloven-hoofed mammals that causes inflammation of the foot and subsequent lameness in beef, sheep, goats and horses. Lameness in all sectors of the beef industry can lead to decreased revenue.

It is estimated that approximately 20% of lameness in all cattle; dairy and beef is attributed to foot rot.

In the beef industry alone, it is estimated that closer to 75%. Cattle in the feedlot have been reported to have almost a half a pound lower average daily weight gain while suffering with foot rot. This represents a significant economic loss to the industry due to infected animals.



## CAUSE OF HOOF ROT:

The main foot rot-causing bacteria in cattle is **Fusobacterium necrophorum**, an ever-present bacterium found in the environment. Researchers have found this bacterium on the surface of healthy feet, in the rumen and in the feces of beef cattle.

Other bacteria that are present on healthy feet can increase the virulence of *Fusobacterium necrophorum* thereby increase the incidence and severity of foot rot.

When there is an injury to the hoof caused by walking on rough surfaces or standing in wet, damp or muddy conditions, resulting in a weakening of the foot tissues allowing the bacteria to wreak havoc on the foot.

Another common cause of foot rot occurs when cattle move quickly from wet to dry conditions.

This can cause the skin to become chapped and cracked giving *Fusobacterium necrophorum* an opportunity to enter the tissues of the hoof.

Mineral deficiencies of zinc, selenium and copper are also known causes of foot rot.

Because foot rot can be caused by a ubiquitous bacterium, it is not considered contagious.

## TREATMENT AND PREVENTION:

### FOOT BATH:

For both treatment and prevention, use 250 liters walk through foot bath with a 3% (7.5Kg) **Culmen Hoof** dilution to the water.



**ADVANCE**  
ALLIANCE



The treatment will show rapid results - generally in the first three days. It is advisable to have another walk-through foot bath with clean water prior to the treatment foot bath to pre-clean the hooves. Replenish the foot bath daily with the same 3% solution. The walk-through foot bath is ideal for dairy cows as they need to walk daily to the milking area.

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## BUCKET TREATMENT:

For meat producing beef or feed lots, the application of **Culmen Hoof** is principally curative.

Once an infection has been detected, the animal must be isolated and then treated by mixing **Culmen Hoof** at a 3% dilution with water in a bucket. Immersed the infected hoof in the bucket for a few minutes.

The same solution can be re-used on several animals.

**NB: Once Culmen Hoof has been activated with water, the solution will only last around four days, it must then be discarded.**

**The discarded solution is totally safe for the environment to flush or disperse into nature.**

## FOOT ROT WITH INTERNAL SWELLING:

When hoof rot is internal ie; when the skin swells but it is not punctured, it is advisable to puncture the swollen area, then using a syringe without the needle to force spray the solution internally into the affected area. That will accelerate recovery.

See photo below:





## CONCLUSION:

**Culmen Hoof** is a simple, extremely safe product to use on all hooved Animals and is an inexpensive solution for the and prevention and treatment of hoof rot.

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