



Lumin Calf

Calf gut conditioner

The profitability of dairy farms has been put under pressure due to volatile milk prices and increased feed costs. The main challenge with growing calves is the occurrence of diarrhea and its cost to the producer. The immune system of calves at birth is developed but still very immature. Therefore morbidity and mortality can be very high at calf rearing.



Lumin Calf

Non-Medicated

The new Veterinary Feed Directive regulation and the withdrawal of some medication like Neo-terramycin, have made calf rearing more challenging. Calves are threatened by infections over the whole rearing period. Depending on the pathogen, diarrhea occurs at different weeks of life. Often, infections are not treated because antibiotics do not work against viruses or bacterial infections or some medications are no longer permitted. The natural gut defense system is affected for several weeks or months thereafter. The initial step of viral and bacterial protection is a strong innate defense system.

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Lumin Calf has been developed as a gut conditioner to strengthen the barrier function, minimize the effect of scouring/ diarrhea, support faster recovery and enhance the innate immune system for a calf's long term development.

Its unique composition consists of a proprietary mixture of esterified butyrins which bring the following features and benefits:

- Help support the development of epithelial cells by providing a readily **available source of energy**
- Enhance enterocytes and intestinal villosity development by **stimulating villi growth**
- **Anti-microbial control.** Stimulate the ability of the animal to overcome bacterial infections
- Effect on the microbiota pattern & **balance**

Esterified butyrins are combined molecules composed of a glycerol structure and butyrate molecules. The final result of the esterification is a combination of mono-, di- and tri-butyryns which act as a source of butyrate molecules in the intestinal tract. Based on the molecules origin, it is easy to understand that these "fat-type" structures can only be digested in the presence of the digestive enzyme lipase. By definition, this guarantees full stomach bypass properties at the level of the stomach while being activated after pancreatic lipase has been added.



Producer comments after using Lumin Calf:
(2,000 cow dairy in NY)

« **Lumin Calf** has been an amazing addition to our calf rearing program. While it hasn't eliminated scours, the calves that do scour never loose appetite – they continue to eat, drink and power through it...

Our use of electrolytes has dropped. »

« We rarely have to tube calves anymore. Mortality of calves born alive is less than 1%. »

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From birth to 30 days of age:

- 9 grams / head / day
- Mixed daily into milk replacer, whole or waste milk, electrolyte solution or water
- Supplement in calf starter diets:
2 - 5 grams / calf per day

- Free flowing
- With attractive aroma
- Non-corrosive
- Heat & pelleting stable

Due to the balanced ester combination, **Lumin Calf** combines butyrate supply (quantity) and strong antibacterial activities (quality).

Can also be used in equine, goats, sheep, cows.
Also available in liquid form.



Innovad nv/sa

Sales & Customer Services : Cogels Osylei 33, 2600 Berchem, BELGIUM

Production & Laboratory : Postbaan 69, 2910 Essen, BELGIUM

Tel. +32(0) 3 667 16 55

www.innovad-global.com

info@innovad-global.com

