

# ALOAPUR®

Achieve consistently high poultry performance



- ▶ Introducing a new molecule for animal nutrition
- ▶ Ensures gut health through microflora optimization
- ▶ Provides consistently high technical performance in challenging conditions

As the world population grows in numbers and in economic prosperity, demand for animal protein also grows. Much of this additional demand is being met by poultry producers. Poultry meat and eggs are inherently resource-efficient sources of animal protein which are globally accepted. However, this does not mean life is easy for poultry producers. The industry is under increasing regulatory pressure globally. It is not straightforward to reduce the use of antibiotics, either in growth promotion or therapeutics. When antibiotics are no longer permitted, acceptable, or effective, high performance can be maintained with ALOAPUR®.

#### **A New Solution in Animal Nutrition**

ALOAPUR is the first product to apply Lactylates in animal nutrition. Lactylates are the esters of lactic acid and fatty

acids. Specific lactylates have been used as dough-strengtheners in the bread-baking industry since the 1950s. The personal care and cosmetics industry use Lactylates for their beneficial effects on the skin.

Now, Corbion has brought this safe, biobased chemistry to animal nutrition. ALOAPUR is formulated as a free-flowing powder that is ready for direct implementation in all premix and compound feed processes. It contains lactylates that are made from selected medium chain fatty acids (MCFAs) and lactic acid. They are included in Chapter 11.4.7 of the EU Catalogue of Feed Materials. Formulated together with a diatomaceous earth carrier, ALOAPUR is defined as a complementary mineral feed.



### Lactylates Selectively Shift Gut Flora

Various bacteria react differently to ALOAPUR Lactylates. Clostridia are particularly sensitive. When applied to complex gut flora, this means *Clostridium* species, such as *C. perfringens*, will be less likely to overgrow. (Figure 1)

### Lactylates Reach the Small Intestine

Gut micro flora imbalances, which disturb the natural interplay between gut bacteria and the animal, often occur in poultry farming. In such cases, the wrong type of bacteria (often *Clostridia* species) can grow beyond normal healthy levels in the small intestine. Lactylates reach the small intestine, where flora optimization is needed. (Figure 2)

### ALOAPUR Promotes High Performance

In modern commercial broiler production, many factors threaten healthy and high-performing gut flora. They cause gut health issues that keep poultry performance under continuous pressure. ALOAPUR protects against crippling imbalances that damage optimal animal performance. (Figure 3)

Figure 1. Bacterial numbers (CFU)

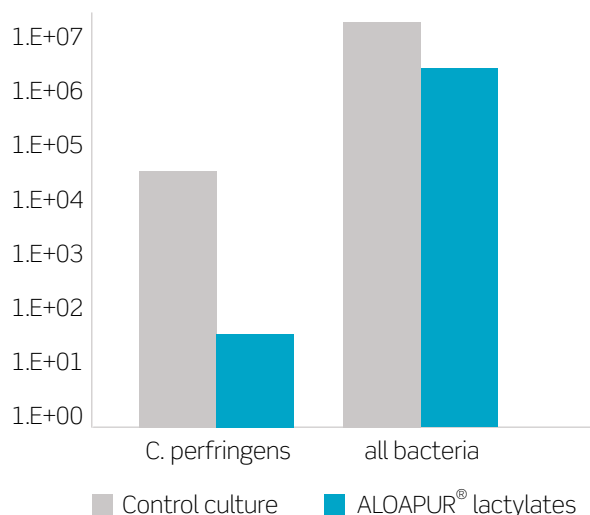


Figure 2. GIT Concentration of Lactylates (ppm)

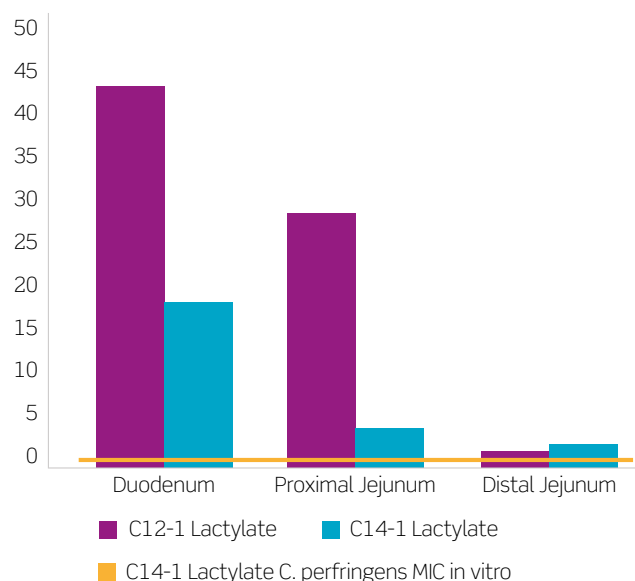
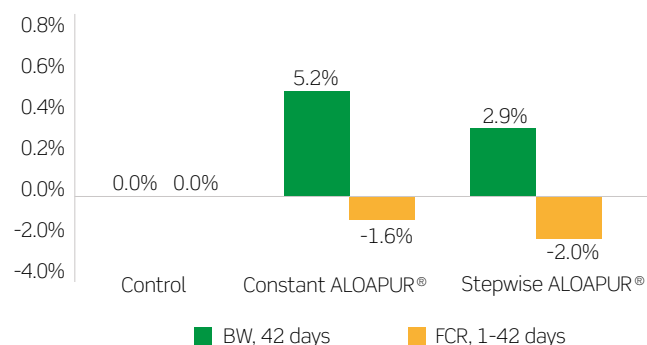


Figure 3. Broiler performance



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For the animal nutrition industry, Corbion Purac offers lactic acid and lactic acid derivatives. Our ingredients are produced from renewable agricultural products and are used in a broad range of animal feed products. Lactic acid is effective safe and is well tolerated it is naturally present in all living species. Corbion operates 10 production plants, in the USA, the Netherlands, Spain, Brazil and Thailand, and markets its products through a worldwide network of sales offices and distributors.