

ALOAPUR®

Achieve consistently high animal performance



By promoting gut health, ALOAPUR® supports the overall health of your animals and enhances key performance factors such as FCR and BW. It also offers excellent physical properties:

- ▶ Free flowing
- ▶ Non-caking
- ▶ Neutral odor

As world population continues to grow in numbers and economic prosperity, demand for high-quality animal protein is increasing, too. Although meat producers are stepping up to meet this additional demand, they face mounting regulatory pressures to reduce the use of antibiotics, whether for growth promotion or therapeutic treatments. Corbion's ALOAPUR® provides an effective solution for achieving superior animal performance, even in the absence of antibiotics.

A New Solution in Animal Nutrition

ALOAPUR contains lactylates - esters of lactic acid and specifically selected medium-chain fatty acids (MCFAs) formulated as a free-flowing powder with a diatomaceous earth carrier. ALOAPUR delivers the benefits of several excellent physical properties:

- Free-flowing, non-caking powder
- Neutral odor
- Thermal stability
- Suitability for pallet shipping

Bringing safe, biobased chemistry to animal nutrition, ALOAPUR is categorized as a complementary mineral feed and is included in Chapter 13.6.13 of the EU Catalogue of Feed Materials. It is ready for direct incorporation in all premix and compound feed processes.

ALOAPUR is proven effective against Gram positive bacteria like *Clostridium perfringens* and *Streptococcus suis* *Staphylococcus*. When applied in animal feed, it helps promote the overall health of your animals by supporting gut health, thereby enhancing performance.

ALOAPUR® can be applied in the following species:

- Poultry (broilers, turkeys, breeders, laying hens and other species)
- Swine (piglets, sows and fattening pigs)
- Rabbits
- Ruminants (veal)
- Aquaculture



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ALOAPUR® improves the performance in Broilers

In a trial conducted with Ross 308 broilers, ALOAPUR was used in varying dosing schemes.

Results (figure 1) show that the body weight (BW) of broilers fed with all the treatments significantly improved by 4.8% , 3.8% and 4.9% respectively. In addition to gains in BW, improvements in feed conversion ratio (FCR) were observed: -2.60%, - 2.94% and -4.41%. The FCR of the last treatment was significantly

Source: Olsztyn University of Warmia and Mazury (Olsztyn, Poland)

Figure 1. Performance results of ALOAPUR in broilers (in %)

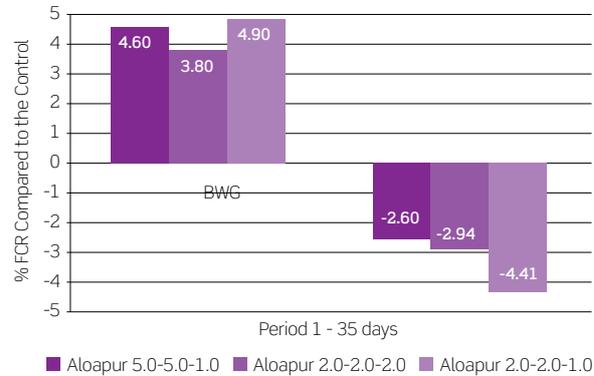
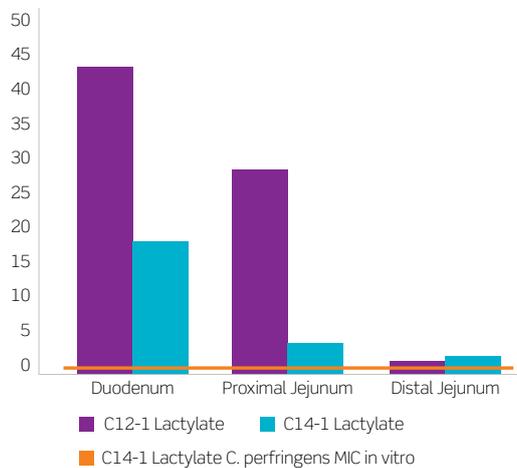


Figure 2. GIT Concentration of Lactylates (ppm)



ALOAPUR® is effective against Gram +

In-vitro experiments were performed using Bioscreen testing against *Streptococcus suis*. It was observed that even very low concentrations of lactylates are effective in inhibiting growth. For C12 lactylate, a MIC value of 0.0015% or 15 ppm was measured in an experiment conducted over 72 hours. In pigs, *S. suis* is an important pathogen. ALOAPUR applied in feed for piglets, sows and fattening pigs can help control outgrowth of *S. suis*.

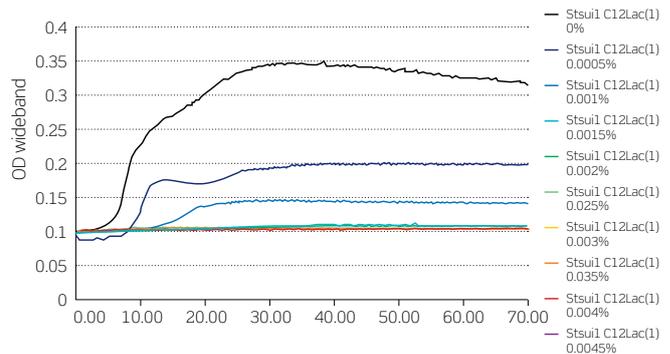
Source: Corbion Bioscreen growth experiments

ALOAPUR® lactylates reach the small intestine, resulting in a balanced micro flora

A study of broilers fed with ALOAPUR was conducted at Wageningen University to analyze the quantity of lactylates present in different parts of the gut. Lactylates were shown to reach the small intestine - the duodenum, proximal jejunum, distal jejunum and ileum - even the colon. With ALOAPUR lactylates present so far along the GI tract, gut flora can be balanced throughout the animal's microbiome, resulting in improved performance.

Source: Wageningen UR Livestock Research (Wageningen, Netherlands)

Figure 3. Growth study of *Streptococcus suis* with increasing amounts of ALOAPUR



The recommended dosage of ALOAPUR® is 2 kg/MT



Request your free sample

Samples and detailed usage instructions, delivered right to your doorstep
corbion.com/samples



Sample Support

With R&D facilities on every continent, we are always close by to help you with your application development.
corbion.com/contact

Interested in solutions for animal health? Go to corbion.com/AnimalHealth



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For the animal health industry, Corbion 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.