

# ALOAPUR® LQ

Solution for drinking water application  
against Gram+ pathogens



- ▶ Effective against Gram + (e.g., *Streptococcus suis*)
- ▶ Application for drinking water
- ▶ Supports reduction of antibiotics
- ▶ Helps to improve animal performance

Restrictions on the use of antibiotics in livestock production continue to increase in order to reduce the incidence of antibiotic resistance. The European Green Deal's farm-to-fork strategy aims to reduce the use of antibiotics for farmed animals 50% by 2030<sup>1</sup>, and other products like zinc oxide as a veterinary medicinal product will be banned by June 2022. These changes increase the challenges of suppressing pathogenic bacteria in livestock, like *S. suis* and *Clostridia*. Corbion's ALOAPUR® PM, which promotes animal gut health, provides an effective way to help to reduce reliance on antibiotics. A new option now leverages the benefits of this solution in drinking water applications.

## ALOAPUR® LQ: Innovative solution for drinking water

Corbion has created a unique blend with a higher concentration of lactylates: ALOAPUR® LQ. These lactylates, esters of lactic acid and carefully selected medium-chain fatty acids (MCFAs) can be applied via drinking water. The product remains stable and pourable even at temperatures as low as 1°C.

## Enabling flexibility and responsiveness

ALOAPUR® LQ is particularly helpful in piglets under stress after weaning. The flexibility inherent in the drinking water application makes selective dosing easy; the solution may be added directly in pens where it's needed most, in selected farms or in selected periods of time, enabling a rapid response to animal needs.

## Reduced use of antibiotics and easy handling

In in-vitro studies, ALOAPUR® LQ has proven to be effective specifically against Gram+ pathogens, including *S. suis* and *Clostridium perfringens*. By supporting gut health, the product contributes to enhanced animal performance, while helping to reduce antibiotics and zinc oxide. Adding ALOAPUR® LQ to drinking water enables easier handling which is especially beneficial when farmers must focus on caring for sick animals.

ALOAPUR® LQ is designed for use with:

- Swine (piglets, sows and fattening pigs)
- Poultry (broilers, turkeys)
- Young ruminants



<sup>1</sup> [https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal/actions-being-taken-eu/farm-fork\\_en](https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal/actions-being-taken-eu/farm-fork_en)

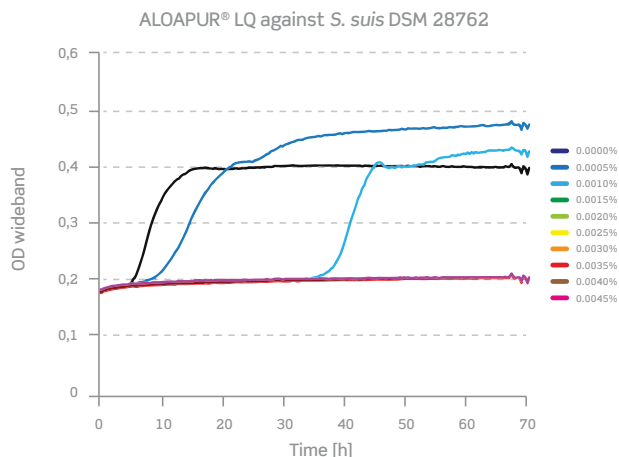


Figure 1. In-vitro inhibition study of ALOAPUR® LQ against *S. suis*

Figure 1 shows the results of a Bioscreen growth experiment in which *S. suis* DSM 28762 was applied in increasing concentrations of ALOAPUR® LQ for 72 hours at 37°C. A MIC value of 15 ppm was observed.

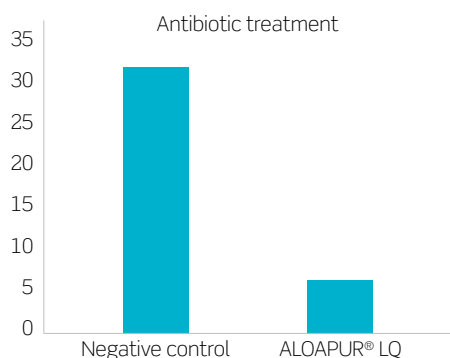


Figure 2. Antibiotic treatments within the different groups

Figure 2 shows the results of a practical trial from Belgium. Within this trial the following groups were evaluated: 1) Control (Standard diet, no additives in drinking water, no pre-cleaning involved), 2) ALOAPUR® LQ (Standard diet, ALOAPUR® LQ at 0.1% via drinking water, no pre-cleaning involved). Each group contains on average 126 pigs (8 pens containing 16 piglets each) and the duration of the trial was 7 weeks.

Results showed that animals receiving ALOAPUR® LQ had an increased BWG but also a lower FCR and less antibiotic treatments were needed. Figure 2 shows the antibiotic usage per group. In the Control group in total 32 animals were treated with antibiotics (25.2%) and in the group with ALOAPUR® LQ only 6 animals were treated with antibiotics (4.7%). Therefore this trial indicates that an addition of ALOAPUR® LQ helps to support the gut health of the animals and improves to overall health. Which results in a lower treatment with antibiotic.

### Recommended dosage for piglets

- The recommended final dosage of ALOAPUR® LQ in drinking water for piglets is: 0.1 wt% (1000 ppm)
- 0.1 wt% ALOAPUR® LQ solutions should preferably be used directly after preparation from the ALOAPUR® LQ stock solution (i.e., within less than 2-3 days).

### Application recommendations

Please consult with your local contact to ensure that you use proper equipment and establish appropriate settings.

### ALOAPUR® LQ categorization

ALOAPUR® LQ is categorized as a complementary feed. The main ingredients are regulated according the Regulation 1017/2017 of the EU catalogue of raw materials for animal feed. As a complementary feed, ALOAPUR® LQ can be added to a drinking water system.

### Sustainability

Corbion is committed to supporting the UN Sustainability Development Goals, and we believe that, through the way we operate our business and the products we create, we contribute directly to the fulfillment of SDG 2 (Zero hunger), SDG 3 (Good health and well-being) and SDG 12 (Responsible consumption and production).



By enhancing gut health and, in turn, the overall health of the animal, ALOAPUR® LQ contributes to efficient animal production (lower mortality and better performance), thereby supporting both SDG 2 (Zero hunger) and SDG 12 (Responsible consumption and production).



By reducing the need for antibiotic use, ALOAPUR® LQ helps lower risks associated with AMR, which contributes to the good health and well-being (SDG 3) of both livestock animals and people.



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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.

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