

# CAPMAG<sup>ZN</sup>

## TECHNICAL BULLETIN #6

### CAPMAG<sup>®</sup> ZN IMPROVES GROWTH PERFORMANCES OF WEANED PIGLETS COMPARED TO A POTENTIATED ZNO

#### INTRODUCTION

The ban on pharmacological doses of ZnO in piglet feed has stimulated the search for new sources of zinc to ensure that piglet growth and health performance are maintained while complying with regulatory standards. Over the last few decades, manufacturers have innovated by developing both organic and inorganic zinc sources. These include potentized ZnO, an innovative inorganic source of Zn, which increases the molecule's contact surface.

The aim of this trial is to assess on CAPMAG<sup>®</sup> Zn's effect on post-weaning piglets' growth performances compared to a potentized ZnO.

#### MATERIAL & METHODS

The trial has been set up in the experimental farm of Euronutrition (France, 2024), with a French premixer customer. Piglets ((Large White x Land Race)x Piétrain) were weaned at 21 days of age and received 2 different treatments during the whole post-weaning phase. Each treatment was repeated in 8 pens of 5 piglets. Diets and measurements are synthetized in Figure 1.

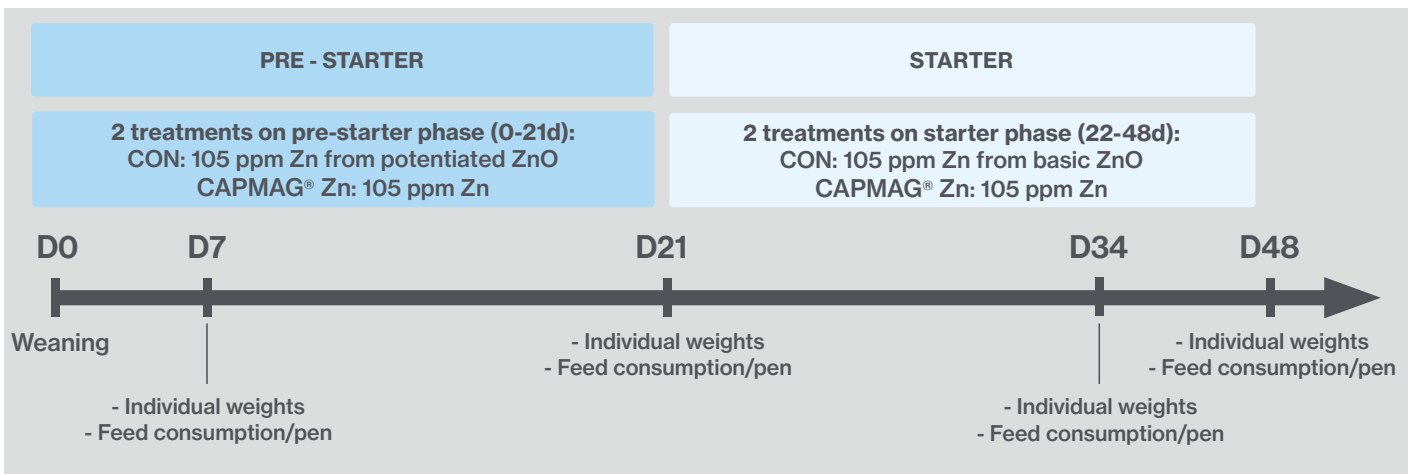
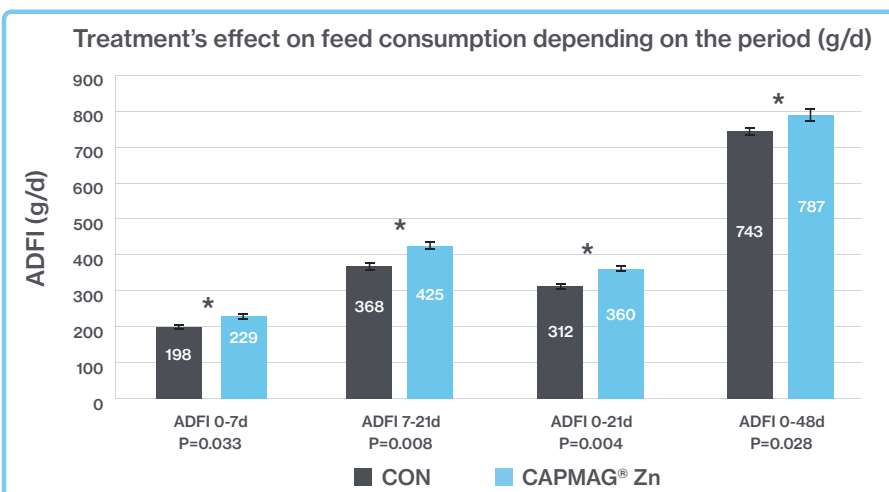


Figure 1: Experimental model

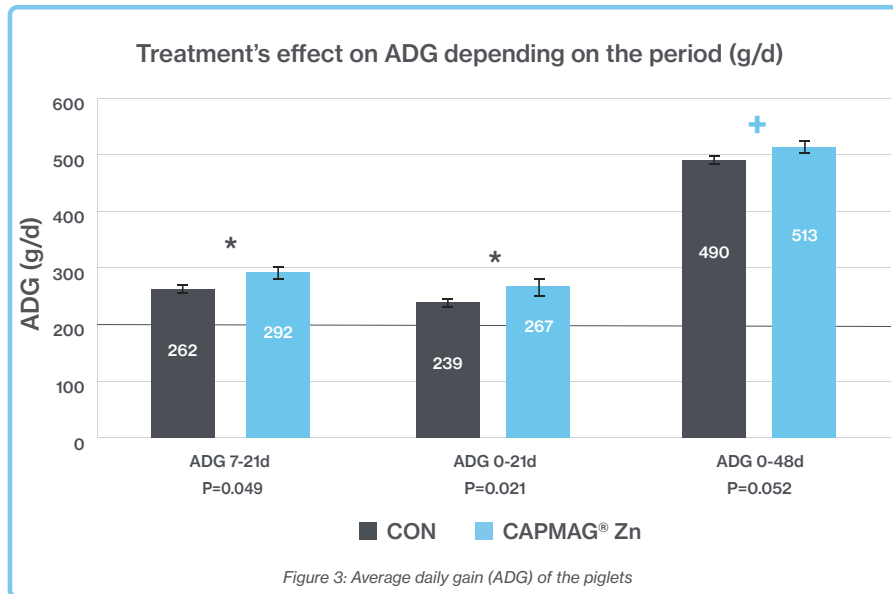
#### RESULTS & DISCUSSION



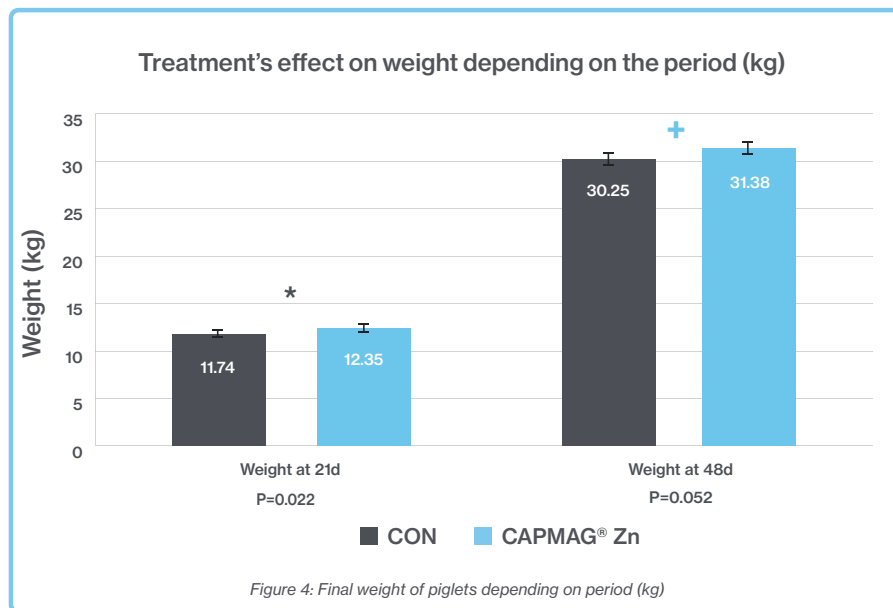
CAPMAG<sup>®</sup> Zn supplementation allowed an improvement in average daily feed intake (ADFI) during the pre-starter phase by 48 g/d ( $P < 0.05$ ) and during the whole post-weaning phase by 44 g/d ( $P < 0.05$ ) compared to the treatment with potentiated ZnO (Figure 2). A better feed consumption by piglets in the post-weaning period helps them perform better during fattening.

Figure 2: Average daily feed intake (g/d)

An improvement of 28 g/d in average daily gain (ADG) was observed during pre-starter ( $P<0.05$ ) and of 23 g/d during the global post-weaning period ( $P=0.05$ ) with CAPMAG<sup>®</sup>Zn compared to the treatment with potentiated ZnO and basic ZnO (Figure 3).



At the end of pre-starter phase (at 21 days post-weaning) the weight of the piglets receiving CAPMAG<sup>®</sup> Zn was 0.6 kg higher than the weight of the piglets from the control treatment ( $P<0.05$ ). At the end of the post-weaning phase (48 days), piglets supplemented with CAPMAG<sup>®</sup> Zn were 1,1 kg heavier than with the control ( $P=0.05$ ) (Figure 4).



## CONCLUSION

These results demonstrate the effectiveness of CAPMAG<sup>®</sup> Zn to maximize piglet performance. It is mostly due to the improvement in Zn digestibility as well as the modulation of microbial flora.

CAPMAG<sup>®</sup> Zn improves piglet growth performance in the overall post-weaning phase, compared with potentiated ZnO.