



## Butirex C4 improves growth performance in post weaned piglets

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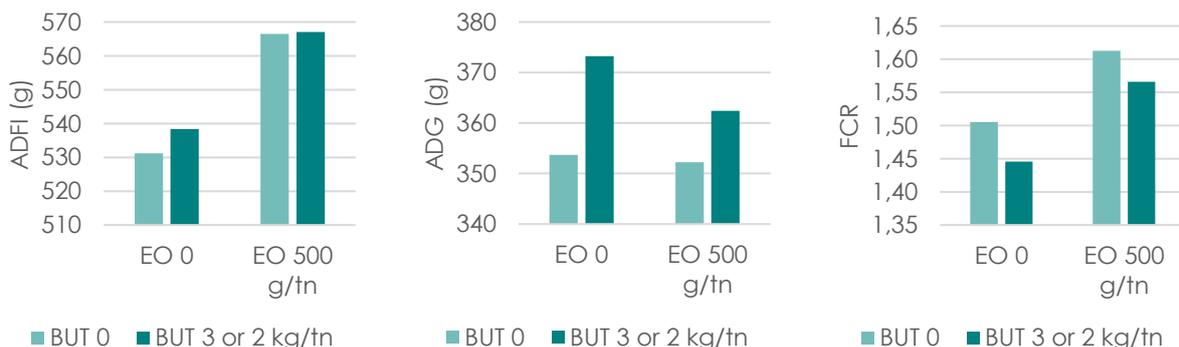
The study evaluated growth performance and the diarrhoea incidence of post weaned piglets that were fed diets with or without Butirex C4.

### METHOD AND MATERIAL

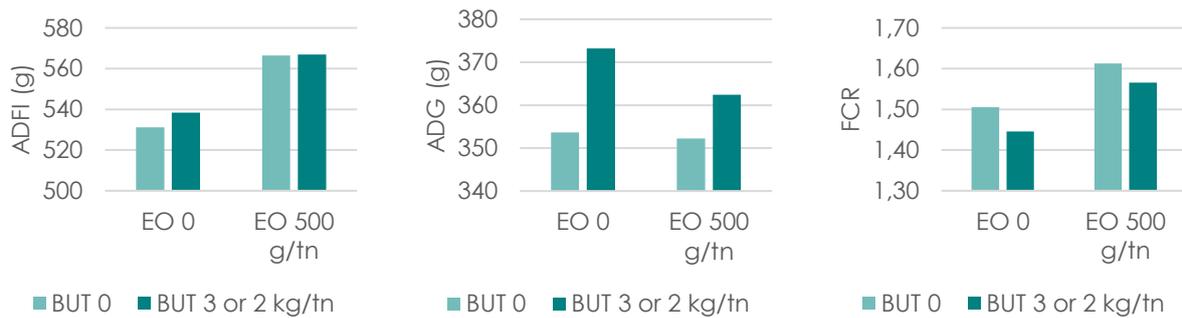
- Trial was carried out at the University of Sao Paulo (Brazil), in 2020.
- 1,600 piglets (21 d of age and 6.69 kg BW) were allotted in 32 pens at weaning.
- Piglets were divided in 4 groups formed a 2 × 2 factorial:
  - **2 levels of Butirex C4 (BUT)** → 0 vs. 3 or 2 kg/ton (3 from 21 to 35 d of age, and then, 2 kg/ton).
  - **2 levels of essential oil blend (EO)** → 0 vs. 500 g/ton.
- Each treatment was replicated 8 times and the experimental unit was the pen (50 pigs each).
- 3 periods: From 21 to 35 d, from 36 to 49 d, and from 50 to 63 d of age.
- Measurements:
  - **Growth performance:** At the end of each period, piglets were weighed in group and feed disappearance was measured by pen. From these data ADG, ADFI, and FCR were determined by period and cumulatively.
  - **Diarrhoea incidence** was estimated by pen as the percentage of days in which pigs had symptoms of diarrhoea. Feces were classed from 1 to 4 (1 = firm, 4 = watery).

### RESULTS

#### PERFORMANCE RESULTS (From 21 to 63 d of age)

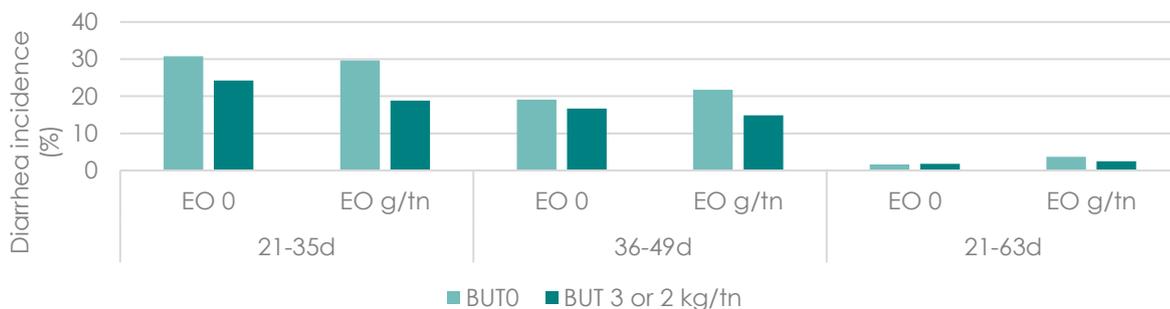


## PERFORMANCE RESULTS (From 21 to 63 d of age)



- Feed intake was higher ( $P < 0.05$ ) in piglets fed with Butirex C4 when animals had less consumption (without EO). In groups with EO, feed intake is high and then, Butirex C4 did not show an extra improvement.
- Body weight gain was higher ( $P = 0.05$ ) in piglets fed with Butirex C4 in both cases (with or without EO). However, this improvement was higher in animals fed without EO (differences of 19.6 vs 10.2 g/d between treatments, respectively).
- Feed conversion ratio was better ( $P < 0.05$ ) in piglets fed with Butirex C4 in both cases (with or without EO). Like ADG, this improvement was higher in animals fed without EO (differences of 3.96 vs 2.88% between treatments, respectively).

## DIARRHEA INCIDENCE RESULTS (Number of cases with feces classed 1 to 2).



- Diarrhoea Incidence was lower ( $P < 0.05$  for the global period) in piglets fed with Butirex C4. As expected, diarrhoea incidence decreased as the piglets age advanced.

## CONCLUSION

The use of Butirex C4 in postweaned piglet diets improve gastrointestinal tract development and increase pancreatic enzymes production. Therefore, nutrients digestibility increase:

- Increased body weight gain
- Improved feed conversion ratio
- Reduced diarrhea incidence