



## Butirex-C4 improves economic performance and gastrointestinal parameters in broiler chickens

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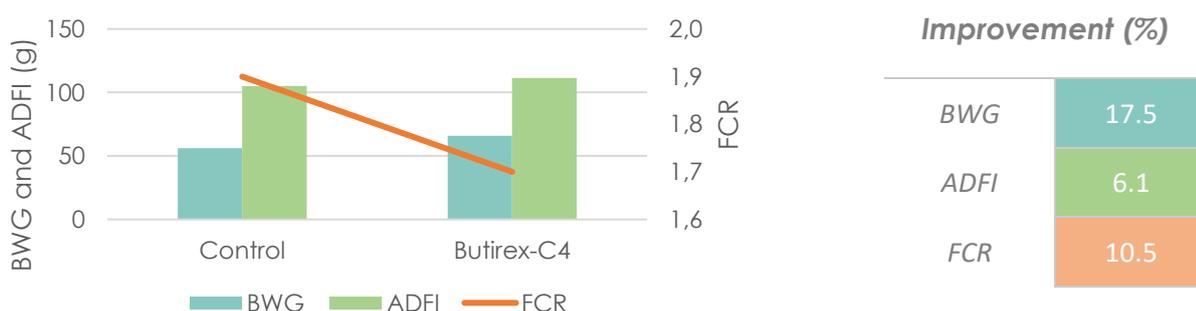
The aim of this trial was to test the effect of BUTIREX C4 on productive performance, nutrients digestibility, and economic performance. The results show that BUTIREX C4 added in the diet improved feed efficiency of the broilers from 0 to 42 d of age, according to the improvement of the nutrient digestibility observed. Also, the use of BUTIREX C4 obtained the optimum economic performance.

### MATERIAL AND METHOD

- The trial was carried out by UTAD – University of Trás-os-Montes e Alto Douro (Portugal) in 2018.
- **160 one-day old Ross chicks** were distributed in 40 pens (10 birds/ pen) and 8 pens per treatment.
- The feeding program: 5 types of diets (from 0 to 9 d, 10 to 17 d, 18 to 23 d, 24 to 35 d, and 36 to 42 d). Diets were in mash form.
- Treatments:
  - Negative Control (without butyric source)
  - BUTIREX C4
- Measurements:
  - Productive (ADFI, ADG, and FCR, by period and cumulatively)
  - Pathogenic microorganisms in ileum and cecum (on 8 broilers/treatment)
  - Nutrients digestibility (7 males/treatment in individual metabolic cages). After the finisher diet, for 4 days
  - Economic performance (income, cost, and benefit; €/broilers)

### RESULTS

#### Butirex C4 improved productive performance (From 0 to 42 d of age)



BDG, body weight gain; ADFI, average daily feed intake; FCR, feed conversion ratio

## Butirex C4 improved nutrients digestibility (at the end of the trial)

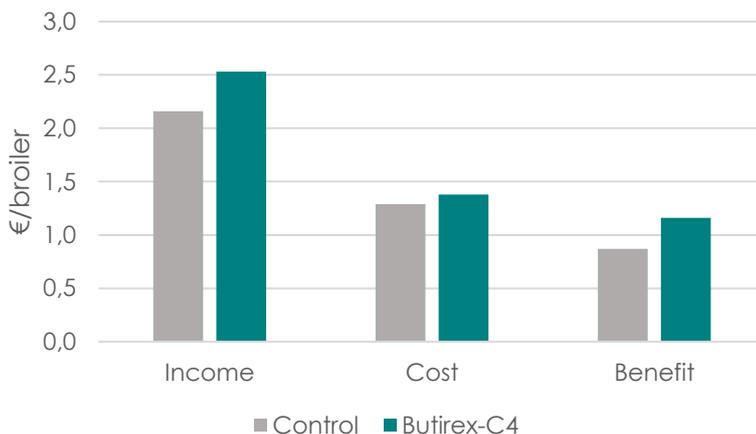
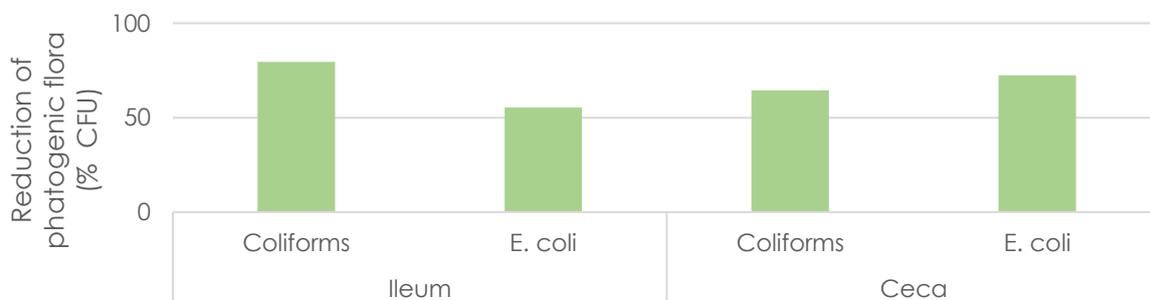
Nutrients digestibility, %	OM	CP	EE	NDF
Control	78.46	81.80	74.7(0	38.13
Butirex C4	81.99	85.13	80.76	41.93
Improvement (%)	<b>+3.53</b>	<b>+3.33</b>	<b>+6.06</b>	<b>+3.80</b>

Did you know that Butirex C4 ....?

- Promotes intestinal health
- Develops intestinal absorption
- Increases the production of enzymes

OM, Organic matter; CP, crude protein; EE, Ether extract; NDF, neutro detergent fiber

Butirex C4 reduced pathogenic microorganisms' population in the intestine (at the end of the trial)



**Butirex C4 improved economic performance.**

(At the end of the trial)

## CONCLUSION

- Butirex-C4 increased feed intake and growth and improved feed efficiency from 0 to 42 d of age, according to the improvement of the nutrient digestibility.
- Therefore, broilers fed with Butirex C4 diets shown more cost but also more benefit per broiler than broilers fed control diet.