



Influence of Butirex-C4 on eggshell quality of 60 wk old laying hens

FRANCE, 2018

PREM13-AV-LAY-5



The objective of the trial was to compare the effect of the inclusion of BUTIREX C4 on shell quality of 60 wk old laying hens.

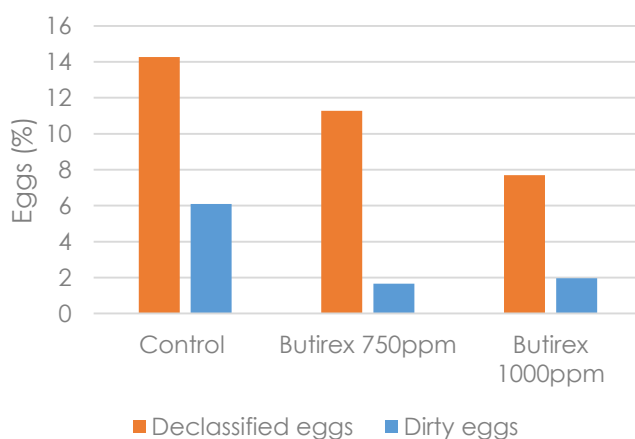
Method and Material:

- Strain: ISA Brown
- Density: 750 cm² / hen
- Light program: 14h of light / d from 6h to 20h
- Trial duration: 12 weeks from 61 to 73 weeks of age
- Treatments: Control diet, 750 ppm, and 1000 ppm Butirex-C4
- Each group = 12 cages of 2 laying hens per cage
- Groups based on:
 - Egg weight the previous week (wk 60)
 - Food consumption at 60 wk of age
 - Their weight at 61 weeks of age

Results and Discussion:

In the current research, **dirty eggs** and total **declassified eggs** (broken, beaked, soft, and Dirty eggs) were higher for hens that were fed control diet than for hens that were fed Butirex-C4 supplemented diets (Figure 1).

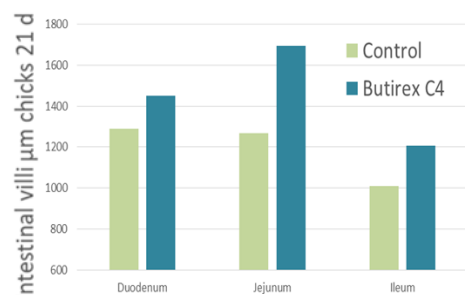
Figure 1. Effect of addition of Butirex-C4 in laying diets on declassified and dirty eggs.



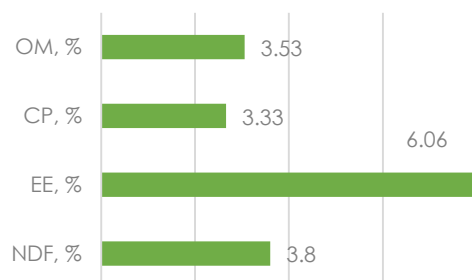
This result is according with the **better feed efficiency** observed previously with Butirex C4 in broilers, with a positive effect of Butirex-C4 on villi length and nutrient digestibility.

EFFECT OF BUTIREX C4 ON FEED EFFICIENCY OF BROILERS. PREVIOUS TRIALS*

Effect of addition of Butirex-C4 in broilers on villi length



Effect of addition of Butirex-C4 in broilers on nutrient digestibility (Improvement, %)



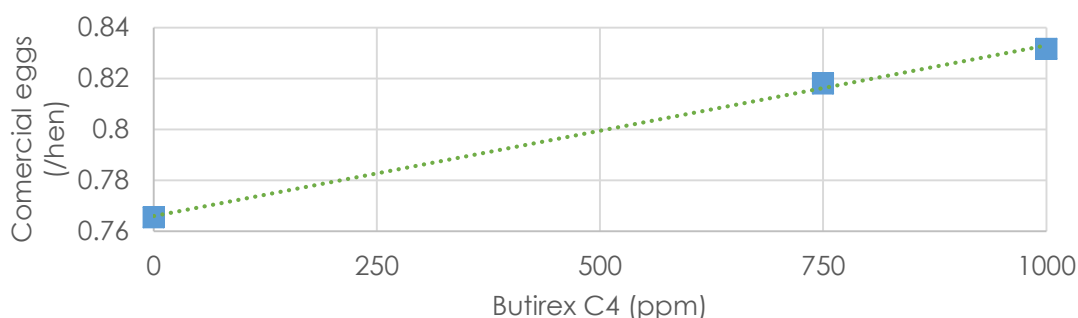
* For further information, please, contact with us

This results are relevant due to the egg **contamination by the laying hen excreta**.

Also, this reduction of declassified and dirty eggs, have an important effect on productive and economic performance. In this respect, the **commercial egg production** (commercial eggs/hen per day) increased linearly as increased the level of Butirex-C4 in the feed (Figure 4).

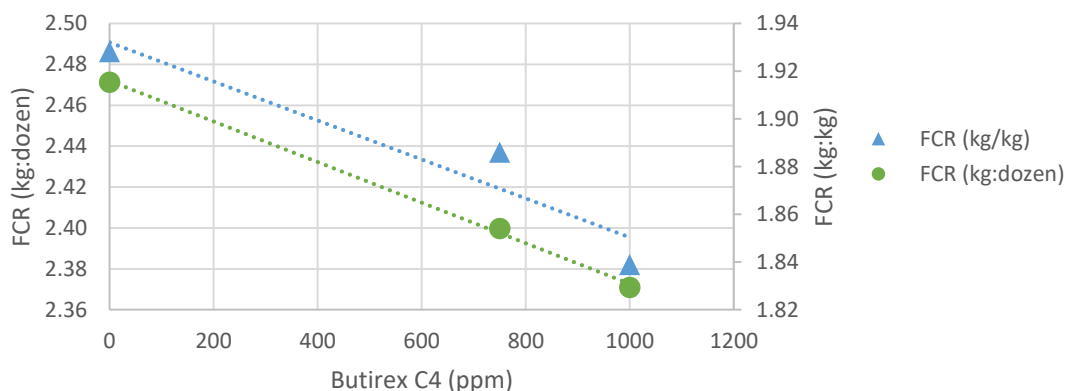
DID YOU KNOW... ?
There are a clear relationship between **bacterial counts** and the cleaning quality of the eggs shells

Figure 4. Effect of addition of Butirex-C4 in laying diets on commercial egg production (commercial eggs/hen per day).



Similar results have been obtained after the calculation of **feed conversion ratio (FCR)** per kilogram of commercial eggs and per dozen of commercial eggs (Figure 5). In both cases, results shown a lineal effect, improving FCR as increased the doses of Butirex-C4 in the diet.

Figure 5. Effect of addition of Butirex-C4 in laying diets on commercial egg production (commercial eggs/hen per day).



Conclusion: Butirex-C4 improve different economical parameters in eggs production, such as number of shelled eggs or production efficiency, related with the increment of nutrient digestibility in laying hens



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