



## Is it possible to remove AGP without any negative consequences?

BUTIREX C4 is an alternative to Antibiotic growth promoters (AGPs), showing similar growth performance in broiler chicken, without increasing nitrogen and phosphorus excretion



- ✓ Antibiotics used as growth performance promoters (AGPs) → Increasing concern over the impact of it on the emergence of antibiotic resistance
- ✓ Animal production gives rise to many environmental concerns due to the output of waste, mainly nitrogen (N) and phosphorus (P)

Decreasing feed efficiency the nutrients excretion is higher!

IS IT POSSIBLE TO FIND A POSITIVE ALTERNATIVE IN BOTH SENSES?

### Method and Material:

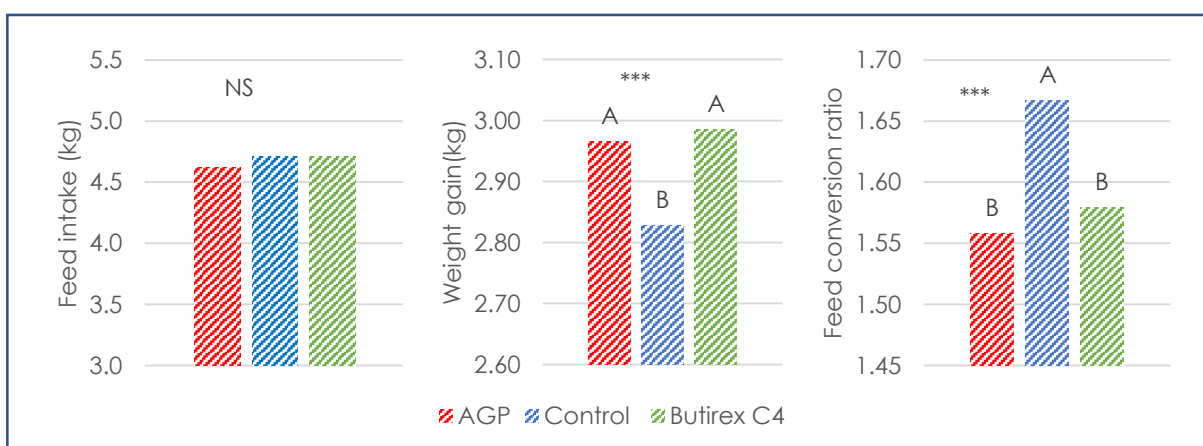
- The trial was carried out by Larvas Federal University, Minas Gerais, Brazil, 2019
- 600 one-day old Cobb 500, distributed in 24 pens → 8 pens/treatment
- 3 Treatments with isonutritive diets:

AGP	Control	BUTIREX C4
Without butyric source 125 g Enramycin 8%	Without butyric source Without AGP	With Sodium butyrate in all phases <sup>1</sup> AGP free!

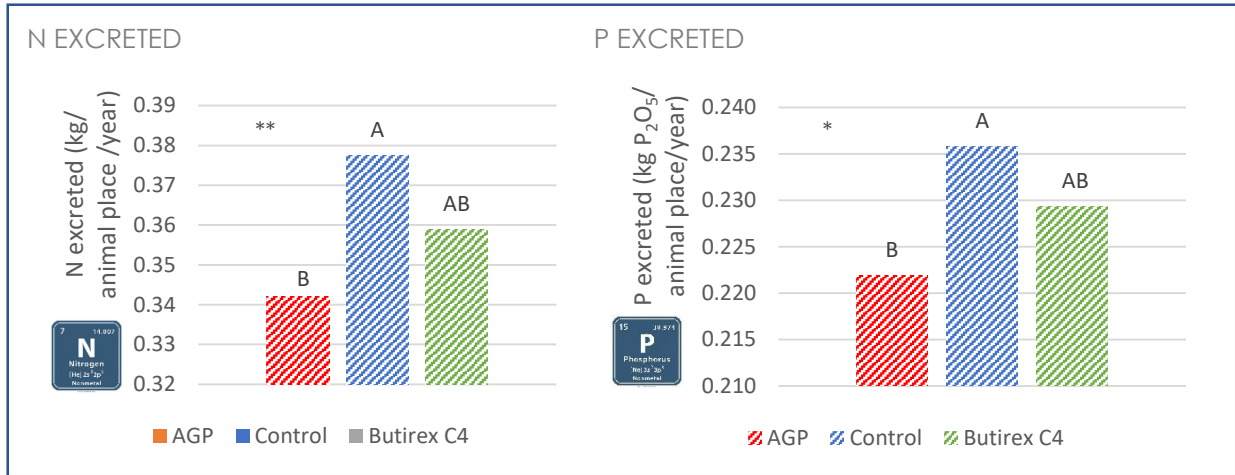
<sup>1</sup>With 0,1% of sodium butyrate from 0 to 21 d and 0.075% from 22 to 40 d

### Results:

From 1 to 40 days of age, broilers fed with Butirex C4 had THE SAME PRODUCTIVE PERFORMANCE AS THE AGP GROUP



From 1 to 40 days of age, broilers fed with Butirex C4 had LESS NUTRIENTS EXCRETION THAN THE CONTROL GROUP<sup>1</sup>



<sup>1</sup> If you would like to have more information about it, please contact us



### DID YOU KNOW...?

There are growing restrictions on the use of antibiotics as growth promoters

- o Most countries restrictions exist or are likely to be implemented

Also, more and more, customers demand antibiotic-free food

When an excess of nutrients (such as N or P) reaches rivers or lakes, eutrophication of the water occurs

- ✓ If we still use AGP → We can decrease the impact of AGP on the emergence of antibiotic resistance without decreasing growth performance
- ✓ If we no longer use AGP → We can decrease contaminant excretion and increase growth performance

BUTIREX C4 IS ENVIRONMENT FRIENDLY!



Butirex C4