



Effect of Butirex C4 on carcass and bone quality in Hubbard broiler from 11 to 44 days

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PREM13-AV-BR-7

Broilers fed with BUTIREX C4 had a better carcass quality and lower enteritis and bone necrosis



Method and Material:

- The trial was carried out in a commercial farm in Russia in 2013.
- Hubbard broiler diet from 11 to 44 days.
- 2 Treatments with isonutritive diets (both with AGP): 1) Control: Basal diet, without any additive. 2) Butirex C4: Basal diet + Butirex C4 during all the feed program (0.1% until 32 d of age and then, 0.05%).
- Measurements
 - Growth performance: initial and final BW were noted, and mortality was recorded as produced. From this data, daily weight gain (DWG, g), feed conversion ratio (FCR), and mortality (%) were determined.
 - Carcass parameters: Data of carcass recovered and liver recycled (carcass and liver need to be recovered by bad quality), quality meat (meat categorization), and intestinal and bone problems of broilers were recorded in the slaughter house.

Results: Growth performance

	Control	Butirex C4	Dif, %
Initial weight, g	44.61	39.44	-11.6
DWG, g	53.95	54.70	+1.4
FCR	1.81	1.77	-2.2
Mortality, %	1.86	1.66	-10.7

- Body weight gain was higher en broilers fed diet with Butirex C4 → +1.4%.
- Feed conversion ratio improved when animals were fed diet with Butirex C4 → -2.2%.
- BUTIREX C4 reduced mortality incidence → -10%.

 Did you know...?

Improvements in feed efficiency are related to better nutrient digestibility.

Butirex C4 improve intestinal villi development and increase enzyme production

Results: Carcass parameters

	Control	Butirex C4	Dif, %
Recovered carcass, %	0.30	0.12	-60.00
Recycled liver, %	4.35	0.67	-84.60
Categorization of grade 1, %	71	76	7.04
Enteritis, %	12	2.1	-82.50
Femoral necrosis, %	15	5	-66.67

- Carcass and liver of broilers fed with Butirex C4 had less recovered, showing more percentage of carcass grade 1 (the best categorization in the slaughter house).
- Also, animals fed with the diet that contains Butirex C4 showed lower incidence of enteritis and femoral necrosis.

 Did you know...?

Femoral necrosis is associated with a lack of structure and separation in the tight junctions of the small intestine epithelium Improvements in feed efficiency are related to better nutrient digestibility.

CONCLUSIONS: BUTIREX C4 has a positive effect in the gastrointestinal development, improving growth performance, carcass quality and health of broilers.