



Effect of the BUTIREX C4 inclusion level in Japanese quail feed on egg performance production

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The aim was to measure the inclusion level effect of Butirex C4 in the feed on the performance parameters of Japanese quail.

Method and Material

- A total of 144 animals of 32 wks of age were used.
- Animals were distributed in 12 cages of 12 animals.
- A basal diet was designed for all treatments including Zinc Bacitracin. Two different treatments were design with 0%, 0,1% inclusion of BUTIREX C4.
- Animals has ad-libitum availability of feed and water.
- Performance parameters were measured in the next 6 weeks: Lay percentage, average egg weight, egg mass, feed intake, feed conversion, mortality, and commercial eggs.

Feed composition, %

Corn	44,00
Soya meal 47	19,00
Wheat middling	18,00
CaCO3	7,80
Fish meal 66	6,00
Fish oil	3,80
Pigments	0,40
Dicalcium phosphate	0,38
Salt	0,24
Coline chloride	0,10
Methionine	0,10
Mould inhibitor	0,10
Premix	0,07
Antioxidant	0,015

Feed nutrients, %

EMA Kcal	2900
CP	20
CF	2,89
Fat	7,05
Ca	3,2
P dig	0,4
Methionine	0,42
Lysine	1,06
Linoleic acid	1,53

Table 1. Composition and nutrient content of the basal diet

Performance Results (Table 2)

- The inclusion of Butirex C4 at 0,1% improved the lay percentage, and egg mass production.
- With Butirex C4 it was stimulated the feed intake.
- Feed conversion, commercial eggs, and mortality was also improved with Butirex C4 at 1 Kg /tone of feed vs Control diet.

Table 2. Effect of Butirex-C4 on productive performance on laying Japanese quail.

Butirex C4 inclusion	0%	0,1%
Lay percentage, %	60,44	65,65
Average Egg size, g	11,36	11,32
Average egg mass, g/day	6,87	7,43
Daily feed intake, g	25,59	26,45
Feed conversion	3,82	3,61
Commercial egg, %	95,12	98,41
Mortality, %	6,94	2,78

Economic benefit (Table 3)

- The inclusion of 0,1% (1 Kg/tonne) of Butirex C4 improve the benefit of egg production an 8%.

Table 3. Effect of Butirex-C4 on economic performance on laying Japanese quail.

Butirex C4 inclusion	0%	0,1%
Price egg Kg, €	2,81	2,81
Cost feed Kg, €	0,382	0,386
Incomes by egg, €	54,82	61,82
Cost by feed, €	29,56	30,87
Cost by Kg egg, €	1,513	1,405
Benefit by Kg egg, €	1,297	1,405
Relative benefit, %	100	108,3

Conclusions:

Butirex C4 stimulate feed intake and improve feed efficiency, improving egg productivity and mass in Japanese quail. Therefore, economic performance is improved with the inclusion of Butirex-C4.

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