

Trial description

A study with GalliPro in broilers was carried out at the Czech research institute MTD, s.p., Ústřařice. A total of 3000 Ross 308 male broiler chickens were allocated to either an untreated control group or a group supplemented with 500g* GalliPro per ton of feed. Trial duration was from 0 to 35 days of age.

The composition of the diets used in this trial is given below in Table 1. No antibiotics or coccidiostats were used in this study. The diets were formulated to provide a high safety for the broiler chickens i.e three different cereals were used. Fishmeal was also used in the starter diet in order to increase the digestibility of the protein.

Table 1. Feed composition

	Starter 0-14 days	Grower 15-28 days	Finisher 29-35d
Ingredients			
Wheat	35.9	30.9	29.0
Maize	17.0	12.0	10.0
Barley	10.0	20.0	30.0
Soybean meal	29.3	29.0	23.3
Fish meal	2.0	-	-
Vegetable oil	2.0	1.0	-
Animal fat	-	3.0	4.1
Premix	3.8	4.1	3.6
Nutrients			
ME, MJ/kg	12.7	13.0	13.0
Crude protein, %	22.5	21.0	18.8
Tot. lysine, %	1.30	1.21	1.02
Tot. Methionine, %	0.54	0.53	0.45
Calcium, %	0.96	0.88	0.85
Total P, %	0.60	0.56	0.52

*: 8×10^5 CFU/g of feed

Results & discussion

Results obtained in this trial are presented below in table 2.

Table 2. Results for animal performance

	Control	GalliPro
Start weight, g	42.8	42.8
End weight, g	1906 ^a	1936 ^b
Diff. from Control	-	1.6%
Feed intake, g	3597	3642
Feed conversion	1.887	1.881
Diff. from Control	-	-0.3%

a,b: Means with different superscript differ significantly (P<0.001)

Supplementation with GalliPro significantly (P<0.001) improved the end weight. In addition, the feed conversion ratio was slightly improved by the GalliPro treatment.

Various carcass measurements were carried out. Table 3 shows the most important results. Breast muscle ratio and total muscle ratio were significantly (P<0.05) improved by GalliPro.

Table 3. Carcass analysis

GalliPro, inclusion g/t	0	500
Carcass weight, g	1310	1340
Breast muscles, g	372.5	393.2
Breast muscles, ratio to body carcass, %	28.43 ^a	29.33 ^b
Total muscles, ratio to body carcass, %	55.01 ^a	55.76 ^b

a,b: Means with different superscript differ significantly (P<0.05)

Conclusion

The results obtained in this study show that GalliPro can improve chicken performance when using a safe feeding schedule is applied.

GalliPro additionally increased the breast and total muscle yield.