

GalliPro®

Efficacy Trial in Broilers

Brazil - Aurora Experimental Facility

Trial description

A study with GalliPro in broiler chickens was carried out at the experimental facility of Aurora -Cooperativa Central Oeste Catarinense Ltda. A total of 1680 Cobb male broiler chickens were allocated to different groups, one control group and 2 supplemented with either 500 g* GalliPro per ton feed, or 10 ppm of avilamycin (AGP). All groups received the same anticoccidial program, 60 ppm of Lasalocide was used from day 1 to 21 and 100 ppm of monensin from day 22 to 36. Eight replicates per treatment were used. Trial duration was from 0 to 45 days of age.

The composition of the diets used in this trial is given below in Table 1.

Table 1. Feed composition

	Pre-Starter	Starter	Grower	Finisher
Ingredients, (%)				
Corn	59.0	61.0	62.0	67.0
Soybean meal	27.4	25.0	22.0	19.4
Meal meal	3.3	5.0	3.5	4.8
Soya oil	2.6	4.4	5.0	5.7
Bowel flour	5.0	3.0	6.0	2.0
Salt	0.45	0.4	0.35	0.30
Premix	2.25	1.20	1.15	0.80
Nutrients, (%)				
Crude protein	22.7	21.0	20.6	17.8
Lysine	1.45	1.35	1.19	0.97
Calcium	0.95	0.90	0.82	0.78
Available P	0.52	0.50	0.48	0.46
Na	0.23	0.21	0.19	0.17

Results & discussion

Results obtained in this trial are presented in tables 2, 3 and 4. Data was analyzed with a general least square model (SAS).

Compared with the negative control group supplement-

* 8 x 10⁵ CFU/g feed

tation with GalliPro (P<0.05) improved both end weight and the feed conversion rate significantly. When compared with the AGP, the GalliPro treatment group also showed a significantly (P<0.05) better end weight and a better feed conversion. GalliPro numerically reduced mortality from 4.1% in the control group to 3.2%.

GalliPro significantly improved the PEI (performance efficiency index), when compared with all other treatments.

Table 2. Results for bird performance

	Control	GalliPro	AGP
Start weight, g	52	52	52
End weight, g	2914 ^a	2994 ^b	2920 ^a
<i>Diff. from Control</i>	-	2.7%	0.2%
Total Feed intake, g	5018	5081	4990
Total weight gain, g	2862	2942	2868
FCR g/g	1.722 ^a	1.697 ^b	1.709 ^c
<i>Diff. from Control</i>	-	-1.5%	-0.8%

^{abc}: (P<0.05)

Table 3. Mortality (from day 1 to 45)

	Control	GalliPro	AGP
Mortality (%)	4.1	3.2	3.4

Table 4. PEI (Performance efficiency index)

	Control	GalliPro	AGP
PEI	360.6 ^d	379.5 ^a	367.0 ^c

^{abcd}: (P<0.05)

Conclusion

In this trial, it was concluded that GalliPro can significantly improve the major broiler production parameters and can be used as a substitute to AGP with a similar or better effect on bird performance.