

Location: Agrivet Consultancy Pvt Ltd •

Period: June 2017 – July 2017

A STUDY ON EVALUATION OF CHRONICOX AS A REPLACEMENT FOR THE CONVENTIONAL IONOPHORE AND CHEMICAL ANTI-COCCIDIAL AGENTS IN BROILER CHICKENS

Experimental Details

GROUP	Description
T-1: Negative Control	Regular conventional corn soybean based diet devoid of any anti-coccidial agent.
T-2: Maduramicin+nicarbazine- diclazuril	The Control diet was supplemented with a combination of Maduramicin 0.75% and nicarbazine 8% during the pre-starter and starter phases (500 mg/kg feed) and diclazuril (0.5%) during the finisher phase at the rate of 200 mg/kg feed.
T-3: Maduramicin+nicarbazine- Chronicox	It was similar to the T2 diet up to the starter phase. In the finisher phase diclazuril was replaced with Chronicox at the rate of 250 mg/kg feed.
T-4: Chronicox	All the diets were supplemented with Chronicox at the rate of 250 mg/kg feed throughout the trial.

Figure 1: Body weight at 42 days of age

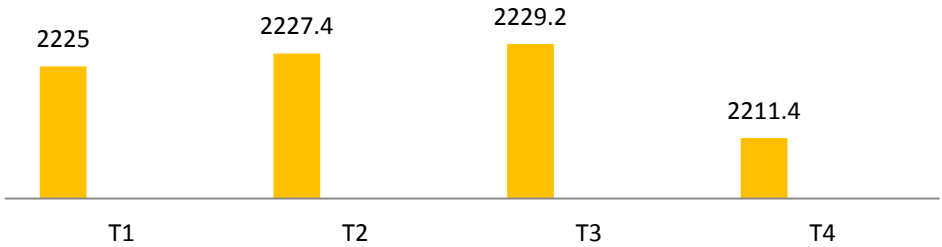


Figure 2: Feed conversion ratio and production efficiency factor during 1-42 days in experimental birds

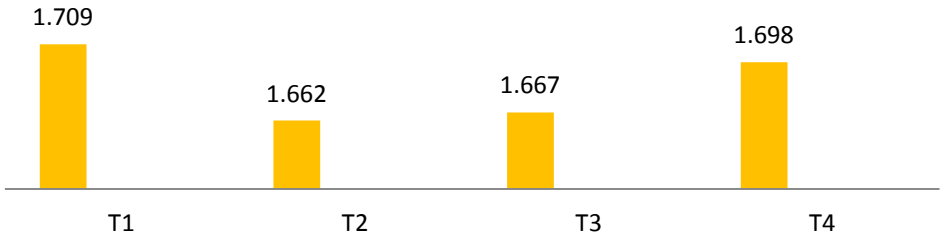
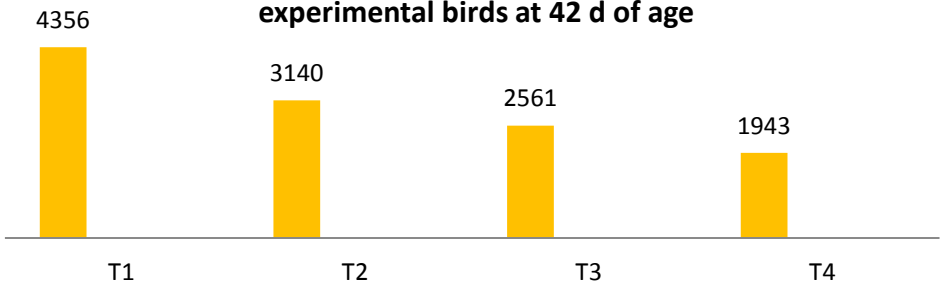


Figure 3: Number of oocysts per g of faeces in the experimental birds at 42 d of age



Conclusion

1. It was concluded from the present study that in absence of any real coccidia challenge it is possible to raise broilers with Chronicox supplemented as the sole anti-coccidial agent or as combined strategy with Maduramicin-nicarbazin combination.
2. Identical body weight was obtained with Chronicox alone or when combined with Maduramicin-nicarbazin against a group which was supplemented with Maduramicin-nicarbazin and diclazuril. However, better feed conversion was obtained in the latter group.
3. Counts of coccidial oocysts in the faecal samples decreased significantly when Chronicox was supplemented to the diet and in this regard Chronicox was found to be superior to Maduramicin-Nicarbazin-diclazuril combinations.
4. Overall, it was concluded that in absence of any real Coccidial challenge Chronicox could effectively support broiler performance in a way similar to Maduramicin-nicarbazin and diclazuril program. Further studies are warranted to confirm the effect of Chronicox in presence of real enteric challenge.