
Faculty of Agricultural Technology Rajamangala University of Technology Thanyaburi
Project Title : Effects of Tamarind kernel powder and *Lactobacillus reuteri*
on The Abdominal Fat and Productive Performance in Broilers
Name : Mr. Belo Mario Talu
Department : Animal Production Technology and Animal Health Science
Supervisor : Asst. Prof. Somjit Thanomwongwatana, Ph.D.
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Abstract

The study was conducted to find the effect of tamarind kernel powder (TKP) as a prebiotics and lactobacillus reuteri as a probiotics on productive performance,carcas percentage and percentage of abdominal fat on broilers. The observed parameters of this study are productive performance (feed intake,average daily gain,mortality,and feed conversion ratio) carcass percentage and percentage of abdominal fat. 360 Arbor acres broilers were used (10 days of age), the experimental design was used completely randomized design (CRD) factorial, divided into 4 treatment combination and two factors with 5 replications each treatment. There are 20 experiment with both factors as control,the 2nd treatment is treatment is supplemented with 10⁶ CFU/g of probiotics in the feed intake, the 3rd treatment are supplement with 3% of TKP in the feed intake, the 4th treatment is supplemented with 3% of TKP and 10⁶ CFU/g probiotics in the feed intake. The result revealed that the supplement with probiotics are significantly increasing the growth of chickens (P<0.05) in the 10⁶ CFU/g levels, the others observation parameters had no significant effect those levels. Prebiotics had no significant effect on the performance parameters also carcass percentage and percentage of abdominal fat (P<0.05) in the levels 3% of tamarind kernel powder.

Keywords :prebiotic, tamarind kernel powder, probiotic, *Lactobacillus reuteri*, productive performance,abdominal fat.