

Judul: The Effects of Rice Hull Supplementation or Inclusion on Performance and Gastrointestinal Weight of Broiler Chickens

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Abstract

The effects of rice hull inclusion or supplementation on the growth performance and gastrointestinal (GIT) weight of broiler chickens were investigated. Three diets, corn-soybean- based diet as control diet (CON), supplementation of 40 g/kg rice hulls on CON (SRH), inclusion of 40 g/kg rice hulls in the diets (IRH) were used for the experiment. The diets were fed to broiler chickens from 2 to 21 d of age. Each treatment was replicated 10 times (8 birds/ replicate or 80 birds/ treatment). From 14 to 21 d of age and across 2 to 21 d of age, broilers fed the IRH had a greater ($P \leq 0.05$) average daily gain (ADG) than those fed the SRH with birds fed the CON being intermediate. Feed intake (FI) followed a similar trend as ADG. From 14 to 21 d of age, birds fed the IRH had higher ($P \leq 0.05$) FI, followed by the CON, and the SRH as the lowest. Rice hull inclusion increased the intestinal content as a percentage of BW, with an effect similar to that of the CON ($P \leq 0.05$). Birds fed the IRH had a lower ($P \leq 0.05$) weight of empty ceca than those fed the SRH and the CON which were not different. The results indicated that the inclusion or supplementation of rice hull produces different effect on the growth performance and GIT weight of young broilers. Diet composition is suggested to be the factors that caused the differences. The diet composition due to rice hull inclusion affected the growth performance and GIT weight of broiler chicken more than the diet composition due to rice hull supplementation.