Effect of dietary natural odor and flavor sources in early feeding on broilers performance

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Abstract:

Early feeding is important for the development of the digestive and the immune system. It appears to stimulate the development of the gastrointestinal tract (small and large intestine) and to increase the growth performance of birds. The influence of some feed manipulations in early feeding on growth performance and carcass characteristics was studied in 150 broiler chicks. The experimental chicks assigned to five groups (30 birds /each). Birds fed basic diet, and considered as control group (C). While, the first, second and third treatment (T1, T2, T3 and T4) was fed on diets containing 10% of skim milk, molasses, fresh whole egg and fresh fish meat, respectively. All experimental birds were raised under similar environmental and managerial conditions. Results indicated that supplementing diets with skim milk, molasses, fresh egg and fresh fish meat significantly (P 0.05) increased body weight &body weight gains and improved feed conversion compared to control birds. Birds fed diets contained molasses and fresh fish meat significantly (P 0.05 increased body weight gains and improved feed conversion compared with that obtained from birds either fed diets contained skim milk and fresh whole egg. Also, molasses and fresh fish meat supplementations groups had superior dressed carcass, gizzard and liver percentages and immune responses. Otherwise, no significant differences (P>0.05) existed in abdominal fat, carcass cutup parts, meat quality traits, blood parameters, bone measurements, plumage conditions and mortality rate. It could be concluded that birds fed a diet containing 10% of molasses and fresh fish meat during growing period had high performance and economical efficiency. Consequently, it could be recommended to present the diets containing 10% of molasses and fresh fish meat for broiler chicks during early feeding period.

Keywords:

Early feeding (odor and flavor sources), broilers performance, carcass traits

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