

Effect of adding crude glycerol to broiler diets on the performance and yield characteristics of carcass

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ABSTRACT:

The present study was conducted to determine the effect of adding crude glycerol as an energy source to broiler's diets on growth performance, carcass yield and internal organ weights. Two Hundred-forty chicks, one-day-old (unsexed), were distributed in a completely randomized design that were divided to five treatments (0, 1.5, 3, 4.5 and 6% crude glycerol from 1 to 42 days), with four replicates (12 chick / replicate). All diets were formulated to meet the same requirements. Broiler were fed with water and food *ad libitum*. The data of Body Weight Gain (BWG), and Feed Consumption (FC) were recorded weekly and Feed Conversion Ratio (FCR) was also calculated. Birds fed diets with crude glycerol did not differ significantly in performance from those fed the control diet without crude glycerol. Birds receiving crude glycerol 3% for initially two weeks showed highest body weight gain and the better feed conversion ratio during all over the experimental period, whereas supplementation of 6% crude glycerol recorded lowest values of body weight gain and feed conversion ratio. Glycerol inclusion at 3% of diet can be used as an effective source of energy in broilers, especially from 0 to 21 days of age. Glycerol inclusion had no effects on the internal organ weights or carcass yield of broilers except for the abdominal fat weight.

Keywords:

Glycerol, Production performance, Internal organs, Broiler.