

Addition of Bidara Leaf Flour (*Ziziphus mauritiana*) In Feed Against Lymphoid Organ Weight And Carcass Quality

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ABSTRACT

This study aims to determine the effect of adding bidara leaf powder (*Ziziphus mauritiana*) in feed on lymphoid organ weight and carcass quality of broiler chickens. The method in this study was an experiment using a completely randomized design consisting of five treatments and four replications. Each replication contained 10 chickens, so the number of broilers used in this study was 200 chickens. (P0) control, (P1) addition of 1% bidara leaf meal/kg feed, (P2) addition of 2% bidara leaf meal/kg feed, (P3) addition of 3% bidara leaf meal/kg feed and finally (P4) addition 4% bidara leaf flour/kg of feed. The treatment of bidara leaf flour starts from the age of 1 to 35 days. Parameters observed were the percentage of bursa fabricius weight, thymus weight percentage, spleen weight percentage, live weight, carcass weight, carcass percentage and abdominal fat percentage. The data from this study were analyzed using the Analysis of Variance (Anova) and if there was an average treatment it was continued with the Duncan Multiple Range Test (DMRT). The addition of bidara leaf meal in the feed in the P3 treatment with a concentration of 3% gave a positive response because of the seven parameters taken, four parameters had a significant effect on the administration of bidara leaf powder, while the other two parameters had no significant effect. The results of this study showed that the addition of bidara leaf meal in feed had a significant effect ($P < 0.05$) on the percentage of bursae weight, the percentage of thymus weight, live weight, carcass weight and carcass percentage, and had no significant effect ($P > 0.05$) on the percentage of spleen and the percentage of abdominal fat. It can be concluded that the best addition of bidara leaf meal to the feed is in the P3 treatment with a concentration of 3%.

Keywords : *Broiler chicken, Bidara, Flavanoid, Lymphoid, Carcass quality*