



Effects of Asam Gelugor (*Garcinia atroviridis*) Supplementation in Diet on Productive Performance, pH Value in Gastrointestinal Tract and Salmonella Infection in Broiler Chickens

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Abstract

The study was to determine the *Garcinia atroviridis* supplementation in diet on productive performance pH value in gastrointestinal tract and salmonella infection in broiler chickens. These studies were a completely randomized design (CRD) of treatments. One thousand Cobb strain broilers age about 1 day were randomized to 5 groups each groups with four replications each replications with 50 birds. The dietary treatments were control diet (T1) control diet supplemented with 200, 300, 400 and 500 mg/kg of *Garcinia atroviridis* (T2, T3, T4 and T5, respectively). The broilers performance was collected over three periods with 1-21, 22-35 and 36-42 days of age as following. At day 22-35 of age, the results showed that highest expression was observed in the group supplemented with 300 mg/kg of *Garcinia atroviridis* expressed significantly higher weight gain and feed intake than that of the control group ($P<0.05$) and the results indicated that all group administered with *Garcinia atroviridis* had feed conversion ratio significantly higher than control group ($P<0.05$). The results indicated that all group expressed not significant pH value in gastrointestinal tract of broiler chickens ($P>0.05$). The salmonella analysis at day 22-35 and 36-42 of age results showed that highest expression was observed in the group supplemented with 400-500 mg/kg of *Garcinia atroviridis* expressed significantly reduced salmonella than that of the control group ($P<0.05$)

Key Words: Asam Gelugor (*Garcinia atroviridis*), Productive Performance, pH value, Salmonella, Broiler Chicken

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