

## Profil darah dan bursa fabricius ayam broiler yang mendapatkan suplementasi jahe merah dalam ransumnya

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### Abstrak

Gumboro Disease or Infectious Bursal Disease Virus (IBDV) is a chicken disease targeting the Bursa of Fabricius, an important organ in the young chicken's developing immune system. Very virulent strains of IBDV caused in mortality of up to 40%. At the other hand, local farmers used Red Ginger (*Zingiber officinale* Roscoe) to improve general performance and meat/carcass quality of broiler chicken. According to the Gumboro Disease, a study was conducted to evaluate the effects of the Red Ginger supplementation in the ration on blood and Bursa of Fabricius profile of broiler chicken. Two hundred five days old broiler chick were randomly divided into five different groups, i.e.: R-0 (ration without red ginger supplementation); R-0,5 (ration with supplementation of 0.5% RG); R-1,0 (ration with supplementation of 1.0% RG); R-1,5 (ration with supplementation of 1.5% RG); and R-2,0 (ration with supplementation of 2.0% RG). The ration was iso-caloric and iso-pro-tein, containing CP 21-23%, ME 3150 kcal ME/kg, Ca 1 %, and P 0.5%. There was five replications for each treatment (eight heads per group). After five weeks old, the blood were collected and the broiler were slaughtered to collect the Bursa of Fabricius for histopathologic prepare analyses. A One Way Classification of Variance Analyses (CRD) was used to analyze the data. Only the significant differences between all treatments were analyzed by the Duncan's New Multiple Range Test (DMRT). The results showed that the red ginger supplementation of 1.5-2.0% increased the amount of erythrocyte ( $P < .05$ ) but decrease amount of leukocyte ( $P < .01$ ). Furthermore, red ginger supplementation injured the Bursa of Fabricus.