Comparasion of Chicken Humoral Immune Response Vaccinated With Active IBD LV-13UA and LV-14UA Under Value Optical Density Indirect Elisa

Abstrak:

Infectious Bursal Disease (IBD) is a disease of chicken caused by Birnavirus. This disease was immunosuppresssive and has a mortality rate up to 100%. This study was aimed to prove the existence of differences in humoral immune response in chicken vaccinated with active IBD vaccine LV-13UA and LV-14UA based on the value of Optical Density with Indirect ELISA method. The study was conducted on 21 chicks that were divided into 3 groups (P0, P1, and P2). Group P1 consist of 7 chicks was vaccinated with active IBD mild strain vaccine at the age of three weeks given 0,3 ml/chick then boostered with active IBD vaccine LV-13UA at the age of five weeks. Group P2 consist of 7 chicks was vaccinated with active IBD mild strain vaccine at the age of three weeks given 0,3 ml/chick virus then boostered with active IBD vaccine LV-14UA at the age of five weeks. Group P0 (control) consist of 7 chicks was given 0,3 ml normal saline/chick at the age three and five weeks. Blood sampling for value of Optical Density (OD) IBD antibody observations performed three times in all age groups for three weeks, five weeks, and seven weeks. Measurement of value of Optical Density (OD) IBD antibody was using indirect ELISA method. Data analysis used the General Linear Models (GLM) and ANOVA. The result showed that there are differences in humoral immuneresponse in chicken vaccinated with active IBD vaccine LV-13UA and LV-14UA based on the value of Optical Density. The value of OD antibody of chicken vaccinated with active IBD vaccine LV14UA is higher than IBD vaccine LV-13UA.

Keyword:

Daftar Pustaka: