DIFFERENCES IN THE IMUNOGENITY OF *WHOLE VIRUS* AND PROTEIN S VIRUS INFECTIOUS BRONCHITIS LOCAL STRAIN I-147 ANDMASSACHUSETTS STRAIN

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ABSTRACT

This study aims to determine the differences immunogenity in protein S and *whole virus* IBV local strain virus I-147 and Massachusetts strain with indirect ELISA technique. In this study used a sample 24 mice that had been injected with *whole virus* IBV Massachusset and strain I-147 and protein S (*Spike Glycoprotein*) IBV strain Massachusset and S strain I-147 . Specimens in this study were *whole virus* and protein S virus *infectious bronchitis* local strain (I-147) and strain of Massachusset at first week and second week . There are 4 treatments in this study. P1 is group mice injected S protein (Spike Glycoprotein) IB virus local strain (I-147). P2 is a group of mice that are injected protein S (Spike Glycoprotein) virus IB Massachusets. P3 is a group of mice injected *whole virus* local strain (I-147). P4 is a group of mice injected with *whole virus* Massachusset. The results of this study indicate that in the treatment group P3 obtained the highest value of optical density (OD) and sequential P3, P1, and P2. Based on Faktorial test and continued Duncan Multiple test Range Test 5% and T-test is shown that between P4 groups is significantly different with, P3, P2 and, P1, and with T-test to shown different between week 2 and week 4 not signifiantly, Based on the results of this study it can be concluded that there is significant Immunogenicity difference of *whole virus* IBV local strain virus I-147 with *whole virus* IB strain virus Massachussets, protein S virus infectious bronchitis local strain (I-147) and strain of Massachussets.

Keywords : Imunogenity, *Infectious Bronchitis*, *Indirect* ELISA, Protein S, *WholeVirus*