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THE DIFFERENCES BETWEEN ANTIGENICITY OF WHOLE VIRUS AND PROTEIN S VIRUS INFECTIOUS BRONCHITIS LOCAL STRAIN AND MASSACHUSETTS STRAIN WITH INDIRECT ELISA

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ABSTRACT

The aims of this research is to determine the differences between antigenicity of whole virus and protein S virus Infectious Bronchitis local strain and Massachusetts strain with indirect ELISA. This research consist of four treatments. P1 is a post-vaccination chicken serum group reacted with S protein (spike glycoprotein) antigen virus Infectious Bronchitis local strain. P2 is a postvaccination chicken serum group reacted with S protein antigen (spike glycoprotein) virus Infectious Bronchitis Massachusetts strain. P3 is a postvaccination chicken serum group reacted with whole virus antigen virus Infectious Bronchitis local strain. P4 is a post-vaccination chicken serum reacted with the whole virus antigen virus Infectious Bronchitis Massachusetts strain. This research used ten post vaccination chicken serum samples to be reacted with whole virus antigen and S protein virus Infectious Bronchitis. The result data obtained are Optical Density values of each treatment to be analyzed using One Way ANOVA and followed by Duncan Multiple Range Test 5%. The results of this research show differences between the antigenicity of whole virus and S protein virus Infectious Bronchitis local strain and Massachusetts strain. Treatment with reacted whole virus antigen Massachusetss strain has the highest antigenicity value. The higher value of Optical Density indicates the antigenicity value also high.

Keywords : Antigenicity, Infectious Bronchitis, Indirect ELISA, S Protein, Whole virus