

**REACTIVITY IB (*Infectious Bronchitis*) VIRUS FIELD ISOLATE
PASSAGED ON Embryonated Chicken Eggs AGAINST
ANTIBODY POST VACCINATION**

THEODORA DWI RETNANI

ABSTRACT

This study aims to determine the IB virus field isolates that react specifically to the results of vaccination antibody (H120 and Mass + Conn), determine the effect of the passage of the field isolates of IB virus and the interaction between the viral antigen IB field isolates and vaccine antibody results (H120 and Mass + Conn) as well as field isolates of IB virus antigen and passage. The allantoic fluid of virus IB isolates I.4, I.8, and active vaccine virus from H120, cultured on Embryonated Chicken Eggs by passage three times. Antigen-antibody reactivity was read by ELISA method and is expressed in OD (*Optical Density*) values. This research used completely randomized design (CRD) 3 factors and the result was analyzed by using ANOVA (*Analyzed of Variance*), continued with Duncan's Multiple Range Test method and processed by using SPSS computer software program. The results of this research showed that isolates I.4 and I.8 have specific reaction to antibodies (Mass + Conn and H120), but the reaction most intense in isolate I.8 ($p < 0.05$), the highest passage on the third passage ($p < 0.05$) and the interaction between antigens with antibodies is isolate I.8 with Mass+Conn ($p < 0.05$).

Keywords: *Infectious Bronchitis* Virus, field isolate, passage, antibody, *Optical Density*, ELISA