

Detection Antibody in Serum of Infected Chicken Second Stage Larvae (L₂) *Toxocara cati* With Different Doses by Indirect-ELISA Techniques

Viva Ayu Kartika

ABSTRACT

The purpose of this research is to analyze the differences of Optical Density (OD) value between antigens of *Toxocara cati* with serum anti-L₂ *Toxocara cati* in chicken by indirect-ELISA technique. The OD value can be used as a development toxocariasis diagnostic. The First step was infected the chickens with L₂ *Toxocara cati* with doses 10, 100, 1000, and 3000. The Second, taking the chicken's blood from vena brachialis at 28 days post infection. The third step was to make *Toxocara cati* homogenates obtained by *Toxocara cati* mashed, then suspended in 1 ml of PBS and centrifuge. Then, doing diagnostic test by indirect ELISA with 1:50, 1:100, 1:200 dilution. The result of indirect-ELISA was measured using ELISA reader with 405 nm wave-length. The average of OD values for each doses in 1:200 dilution obtained through this measurement was 0.287, 1.027, 1.044, 0.876, and 1.025. The result of statistical analysis using F (one way ANOVA) 1% test indicates significant difference ($p < 0.01$). Based on Duncan 5% test advanced analysis, there was no significant difference ($p > 0.05$).

Keywords : *Toxocara cati*, Indirect-ELISA, different doses, OD value.