

**HUMORAL IMMUNE RESPONSES OF MICE TOWARD
ARTIFICIAL INFECTION *Toxocara cati*
WITH THE VARIOUS DOSES**

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ABSTRACT

The aim of this research was investigated effect of various doses second stage larva of *Toxocara cati* toward *Optical Density* (OD) value using *indirect ELISA* technique. Twenty male mice (*Mus musculus*) were used in this research and divided into four groups. They were infected by second stage larva of *Toxocara cati*. The first group (P0) as control was not inoculated, the second (P1) was inoculated with dose 10 eggs/g body weight, the third (P2) was inoculated with dose 17 eggs/g body weight, and fourth (P3) was inoculated with dose 170 eggs/g body weight. Two weeks post infection, antibody from serum was reacted by *excretory secretory* of second stage larva *Toxocara cati* in male mice tissues in *indirect ELISA* technique. The result of *indirect ELISA* was analyzed using ANAVA test based on *Optical Density* (OD) and continued using Duncan test. The result of research statistically indicated that there was significant differences ($p < 0,05$) between the groups. It can be concluded second stage larvae of *Toxocara cati* were infected on mice had an antigenic character and different effect towards various doses.

Key words : *Toxocara cati*, second stage larva, various doses, antigenic, *indirect ELISA*.