

**DETECTION of ANTIBODY in MICE WHICH INFECTION
by *Toxocara cati* WITH DIFFERENT TIME by USING
INDIRECT ELISA'S TECHNIQUE**

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ABSTRACT

The aim of this attempt is to know how the pattern of humoral immune responses toward infection of *Toxocara cati* at different times by using indirect ELISA's technique. The animal object that used as analysis object is five male mice (*Mus musculus*) which infection with second stage larvae of *Toxocara cati* worm, and then conducted by intake of serum at four different time to detect immunoglobulin formed from the whole animal of the attempt. T0 is serum intake before conducted by infection while T1, T2, and T3 are serum intake on seventh, fourteenth and twenty eight days after conducted by oral infection. Humoral immune responses toward second stage larva of *Toxocara cati* worm determined by pursuant value of optical density (OD) that obtained from assay of indirect ELISA, where value of the OD explaining the titers of antibody in serum. Afterwards, data obtained to be analysed with Anova Test using SPSS 13.0 for windows and then to be tested by Duncan 5%. The result of research show highly significant difference ($p < 0,01$) among T0, T1, T2, and T3. After continued with test of Duncan, clearly there are significant difference ($p < 0,05$) among T0 by T1, T2, and T3. While among T1, T2, and T3 there no significant difference.

Key words: *Toxocara cati*, second stage larvae, ELISA, humoral immune responses, antibody.