DETECTION ANTIBODY IN SERUM OF INFECTED CHICKEN SECOND STAGE LARVAE (L2) *Toxocara cati* WITH DIFFERENT DOSES BY WESTERN BLOT TECHNIQUE

Putri Lusiana

ABSTRACT

The purpose of this research was to know the antigen-antibody bond between antigens of *Toxocara cati* with serum anti-L2 *Toxocara cati* by Western blot technique. The protein fractions can be used as a diagnostic development toxocariasis. The first step is to make *Toxocara cati* homogenates obtained from the results of scour worm *Toxocara cati* were subsequently suspended in 1 ml of PBS then centrifuge. The second step analysis using SDS-PAGE with coomassie brilliant blue staining. The third step is characterized and detection using Western blot technique. The results of the analysis of proteins of the worm *Toxocara cati* using Sodium Dodecyl Sulphate Polyacrylamide Gel Electrophoresis (SDS-PAGE) techniques obtained 20 protein bands with MR 11-177 kDa. Characterization of protein from Whole Worm Extract (WWE) worm *Toxocara cati* with serum anti-*Toxocara cati* get past a variety of proteins with relative molecular (MR) different. The results of Western blot knowable specific proteins in this study is a protein with MR 127 kDa, 110 kDa, 60 kDa, 49 kDa, and 11 kDa.

Keywords: *Toxocara cati*, SDS-PAGE, Western Blot, different doses