

**ANTIGENITAS OF PROTEIN FROM WHOLE WORM EXTRACT OF
TOXOCARA VITULORUM WITH ANTI-*MECISTOCIRRUS DIGITATUS*
SERA USING *WESTERN BLOT* TECHNIQUE**

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ABSTRACT

The purpose of this research to get the specific protein from adult stage of *Toxocara vitulorum* used *Whole Worm Extract* (WWE) as antigen which can be used for toxocariasis diagnostic serologically. *Toxocara vitulorum* was collected from gut cattle. To homogenize WWE, mortar and stamfer are used, then added by 2 ml of PBS, next WWE homogenized by centrifuge 4.000 rpm while 15 minutes. Initiation and booster were done to get policlonal antibody from mice. Indirect ELISA used to measure sera antibody levels. Separation of protein by discontinuous system of SDS-PAGE technique (12% separating gel and 5% stacking gel). Characterization of specific protein by semi dry of *Western blot* technique with *western blue* staining used sera anti-*Mecistocirrus digitatus* and IgG anti-mouse. The result of this research are the protein's bands which each of them have molecular weight. The result showed the existence of cross-reaction between WWE *T. vitulorum* antigen with anti-*M. digitatus* serum in a protein with a molecular weight of 176, 124, 92, 68, 59, 47, 31, 29, 26, 16, 12 and 10 kDa.

Keywords: *Toxocara vitulorum*, *Whole Worm Extract*, SDS-PAGE, *Western blot*.