

**CROSS REACTION OF *Toxocara vitulorum* ANTIGEN WITH ANTI-
Moniezia expansa SERA BY WESTERN BLOT TECHNIQUE**

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ABSTRACT

The purpose of this research is to detect the molecular weight of *Toxocara vitulorum* protein which can bind anti-*Moniezia expansa* sera with *Western Blot* technique. *T. vitulorum* was collected from gut of cattle and *M. expansa* collected from gut of sheep. To homogenize them, take four adult worm of *T. vitulorum* and 30 cm of *M. expansa* in mortar and then added 3 mL of PBS, after that centrifuge with 4000 rpm of speed in 15 minutes. Initiation and booster were done to get anti-*M. expansa* sera from mice. *Indirect-ELISA* was used to measure the sera antibody levels. Identification of protein profile by discontinuous system of SDS-PAGE technique with *Comasie Brilliant Blue staining*. Characterization of specific protein by Western blot technique with *western blue* staining used anti-*M. expansa* sera and igG anti-mouse. The result of cross reaction between *T. vitulorum* antigen with anti-*M. expansa* sera by *Western blot* technique obtained a protein with the molecular weight 240; 133; 111; 81; 56; 45; 38; 33; 29; 24; 21; 18; dan 13 kDa.

Key words : *Toxocara vitulorum*, *Moniezia expansa*, SDS-PAGE, *Western blot*