

CROSS REACTION *Mecistocirrus digitatus* PROTEIN WITH SERUM ANTI-*Fasciola gigantica* BY USING WESTERN BLOT TECHNIQUE

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ABSTRACT

The purpose of this research was to know cross reaction *Mecistocirrus digitatus* protein with serum anti-*Fasciola gigantica* by using *Western blot* technique. The results can be used as a mecistocirrosis serologic diagnostic. This research was conducted using *Mecistocirrus digitatus* worms collected from the abomasums of large ruminant, especially cattle and *Fasciola gigantica* worms collected from liver of cattle. The worms were crushed and added with *Phospate Buffer Saline* (PBS) to make homogenates and then centrifuged at a speed 5000 rpm for 15 minutes. Homogenate *Fasciola gigantica* was immunized to mice to obtain serum anti-*Fasciola gigantica* at a dose of 200 µg / mice and booster 4 times with a span of two weeks. The homogenates was performed by SDS-PAGE technique to analyze the protein by using *Commisie briliant blue* staining. Cross reaction of *Mecistocirrus digitatus* protein with serum anti-*Fasciola gigantica* using by *Western blot* technique and obtained 6 protein bands are 124, 66, 49, 41, 34, and 27 kDa.

Keywords: *Mecistocirrus digitatus*, *Fasciola gigantica*, Cross reaction, *Western blot*