

**PROTEIN ANALYSIS OF ADULT *Toxocara canis*  
USING SDS-PAGE TECHNIQUE**

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**ABSTRACT**

This research was done to aim the protein analysis of adult worm *Toxocara canis* with SDS-PAGE Technique. The result of this research can be used to early *Toxocariasis*'s diagnosis, especially immunological diagnosis. *Whole worm, somatic antigen and intestines* were collected from dogs then it crushed up to refinement and were centrifuged at 5000 rpm for 5 minutes. The protein was analyzed using *Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis* technique (SDS-PAGE). This technique was used to separate proteins according to their electrophoretic mobility

By this technique, the protein analysis of adult *Toxocara canis* showed there were 22 bands : 179.5 ; 145.9 ; 118 ; 86.5 ; 80.2 ; 67.8 ; 61.9 ; 54.5 ; 48.6 ; 43.6 ; 42 ; 39 ; 35.3 ; 34 ; 33 ; 30.8 ; 24.8 ; 20.7 ; 19.3 ; 17.9 ; 15.9 ; 10.3 kDa. For the *whole worm*, there were 18 bands ; 179.5 ; 145.9 ; 118 ; 86.5 ; 80.2 ; 67.8 ; 61.9 ; 54.5 ; 48.6 ; 39 ; 35.3 ; 34 ; 33 ; 24.8 ; 19.3 ; 17.9 ; 15.9 ; 10.3 kDa. Therefore, the *somatic antigen* showed 20 bands ; 179.5 ; 145.9 ; 118 ; 86.5 ; 80.2 ; 67.8 ; 61.9 ; 54.5 ; 48.6 ; 42 ; 39 ; 35.3 ; 34 ; 33 ; 30 ; 24.8 ; 19.3 ; 17.9 ; 15.9 ; 10.3 kDa, while the *intestine* showed 17 bands ; 179.5 ; 145.9 ; 118 ; 86.5 ; 80.2 ; 67.8 ; 61.9 ; 54.5 ; 48.6 ; 43.6 ; 42 ; 39 ; 33 ; 24.8 ; 19.3 ; 17.9 ; 10.3 kDa .There were a similar bands among *whole worm, somatic antigen* and *intestine*; 179.5 ; 145.9 ; 118 ; 86.5 ; 80.2 ; 67.8 ; 61.9 ; 54.5 ; 48.6 ; 39 ; 33 ; 24.8 ; 17.9 ; 10.3 kDa.

Keyword : *Toxocara canis*, SDS-PAGE, *Toxocariasis*