

PROTEIN PROFILE ADULT STAGE *Eurytrema pancreaticum* BY USING SODIUM DODECYL SULPHATE POLYACRILAMIDE GEL ELECTROPHORESIS (SDS-PAGE) TECHNIQUE

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ABSTRACT

The aim of this research was to find out protein profile of adult stage *Eurytrema pancreaticum* by using *sodium dodecyl sulphate polyacrilamide gel electrophoresis* technique. The result of this research can be used as a basis to find a specific proteins of *E. pancreaticum* by *immunoblotting* technique, also Ag diagnostic by serologic test. Preparation of homogenates WWE by means of a worm grind with a mortar and then added 3 ml of PBS, then sonikasi 20x 60/sec and centrifuge 5000 rpm for 15 minutes. Two hundred adult worms were isolated from cattle's pancreas and were incubated in PBS with temperature 37°C for 12 hours, Excretion-Secretion (ES) liquid of worms were produced in PBS isolated with saturated ammonium sulphate 1,076/10ml. Both of them were identified by using SDS-PAGE method. The protein profile of WWE of *E. pancreaticum* showed there were 15 bands, as followed: 193.7 kDa, 127.4 kDa, 94.6 kDa, 77.8 kDa, 66 kDa, 60.5 kDa, 52.7 kDa, 47.3 kDa, 42.1 kDa, 38.2 kDa, 31.6 kDa, 26.1 kDa, 20.1 kDa, 13.8 kDa, 11.2 kDa and 6 protein bands profile of ES *E. pancreaticum*, as followed: 69 kDa, 43.1 kDa, 39.2 kDa, 28.1 kDa, 20.1 kDa and 11.2 kDa.

Key words: *Eurytrema pancreaticum*, excretion-secretion, WWE, SDS-PAGE