

PROFILE OF CRUDE PROTEIN TYROSINE KINASE IN MERINO SHEEP SPERMATOZOA WITH METHODS SDS-PAGE (*Sodium Dodecyl Sulphat-Polyacrylamide Gel Electrophoresis*)

Vilda Carlenia Wardani

ABSTRACT

This study aims to see the profile of crude protein tyrosine kinase in Merino sheep spermatozoa. This study used fresh samples of Merino sheep semen were collected by using an artificial vagina techniques then centrifuged to separate the sperm with seminal plasma. Furthermore, spermatozoa (pellet) were isolated. After that isolate spermatozoa protein analysis using SDS-PAGE. Methods of protein analysis by SDS-PAGE to separate proteins based on their molecular weight. Analysis of the molecular weight of the protein by comparing the results with a sample band and marker. Results of running the SDS-PAGE gel of the protein isolate spermatozoa Merino sheep in this study were obtained 13 protein bands with an average molecular weight of 115.44 kDa; 95.78 kDa; 78.22 kDa; 69.02 kDa; 62.33 kDa; 53.72 kDa; 40.56 kDa; 30.74 kDa; 21.16 kDa; 13.67 kDa; 10.85 kDa; 9.49 and 8.07 kDa kDa. From these results on a second band with a molecular weight of 95.78 kDa protein band is believed to be tyrosine kinase but more needs to be confirmed by western blot method

Keywords: Merino sheep sperm, tyrosine kinase, SDS-PAGE