

**IDENTIFICATION *FERTILITY ASSOCIATED ANTIGEN (FAA) IN SEMINAL VESICLE OF BRAHMAN BULL USING SODIUM DODECYL SULPHATE POLYACRYLAMIDE GEL ELECTROPHORESIS (SDS-PAGE) AND WESTERN BLOT***

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**ABSTRACT**

Fertility Associated Antigen was a protein which had a function as a facilitator in the capacitation of spermatozoa during ejaculation. The presence of this in membrane plasma spermatozoa and plasma seminalis could increase the fertility of the bull. The aim of this study was to identify Fertility Associated Antigen (FAA) in the seminal vesicle of bulls (the source of seminal plasma). This research used seminal vesicle from nine bulls. It was obtained from slaughterhouse in Ketanon, Tulungagung, extracted using muller mortar and mixed with PBS. That samples were identified using the SDS-PAGE and Western Blot technique for more specific result. The result from SDS PAGE showed 9 protein bands, namely: 181 kDa, 73,53 kDa, 66,33 kDa, 54,79 kDa, 44,40 kDa, 35,76 kDa, 30,22 kDa, 24,79 kDa and 19,12 kDa. From that result here were several protein bands of proteins with molecular weight of 30,22 kDa which identified as Fertility Associated Antigen (FAA) after being tested by monoclonal antibody anti-FAA. The conclusion from this research was that Fertility Associated Antigen (FAA) could be identified on seminalvesicle of bulls.

**Key words:** Seminal Vesicle, bull, FAA, SDS-PAGE, Western Blot