ANTIGENICITY STRAIN 19 OF *Brucella abortus* TO POLYCLONAL ANTIBODY USING WESTERN BLOT METHODS

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ABSTRACT

The objectives of this research were to detect antigenic strain 19 of *Brucella abortus* based on specific protein molecular weight characteristic.

Polyclonal antibody was produced by injecting subcutaneous the suspention which consist of *Brucella abortus* S-19 and *Complete Freund's Adjuvant* to male rabbit.

The *booster* had been done for six times with ten days interval by injecting suspention tha contain of *Brucella abortus* S-19 and *Incomplete Freund's Adjuvant* Blood sampling was collected from male rabbit in order to get polyclonal antibody anti *Brucella abortus* S-19, ten days after the last *booster*.

Fractination of protein antigen base on molecul weight was performed by using SDS PAGE technique.

Western Blot technique was conducted to find out antigenicity of *Brucella abortus* S-19 to antibody polyclonal anti *Brucella abortus* S-19.

The results of this reseach showed that there are four bands of protein from *Brucella abortus* S-19 which were recognized antibody with molecul weight of 64,2 kDa, 23,9 kDa, 21,2 kDa, and 19,0 kDa.

Key words : *Brucella abortus* S-19, Protein, *Western Blot*