IDENTIFICATION THE PROFILE OF OUTER MEMBRAN PROTEIN *BRUCELLA ABORTUS* STRAIN 19 USING SODIUM DODECYL SULPHATE POLY ACRYLAMIDE GEL ELECTROPHORESIS (SDS-PAGE)

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ABSTRACT

The aim of this research was knowing the profiles of outer membran protein *Brucella abortus* strain 19 by using Sodium Dodecyl Sulphate Poly Acrylamide Gel Electrophoresis (SDS-PAGE). Beside the purpose, it could be the basic research that use in immunogenic serodiagnostic test toward *Brucella abortus* strain 19.

Brucella abortus strain 19 isolate was obtained from Pusat Veterinaria Farma Surabaya. Isolation of *Brucella abortus* strain 19 was cultured on *Potato Agar* and was incubated at 37^0C for three days. *Brucella abortus* strain 19 was cultured on *Triptone Soya Agar* (TSA) and *Blood Agar* (BA) for purity and identification by microscopic examination and biochemical test.

Fractination process to get Outer Membran Protein (OMP) by using sonication technique with ultrasonic homogenizer 25.000 Hz 3x3 minutes with one minute interval.

Brucella abortus strain 19 isolates was analysed by SDS-PAGE based on molecular weight in kDa. That analysis showed eight band proteins of *Brucella abortus* strain 19 with molecule weight of 55.3 kDa; 44.5 kDa; 38.2 kDa; 30.5 kDa; 24.4 kDa; 21.9 kDa; 20.3 kDa and 14.7 kDa.

Key words: *Brucella abortus*, Outer Membran Protein, SDS-PAGE.