

ABSTRACT

This research was intended to explore about protein profile characterization, protein antigene against specific antibody and antibody crossed reaction of *Pasteurella multocida* isolate came from Pusvetma and Maros. The extraction of both *Pasteurella multocida* were carried out by sonicator and addition with tween 20. The result were the protein contents of *Pasteurella multocida* were 2660 µg/ml for Pusvetma and 2280 µg/ml for Maros.

The characterization of protein profile was carried out by 12 % SDS-PAGE metode and were obtained 13 protein ribbons for Pusvetma isolate and 12 protein ribbons for Maros isolate. Both of them had molecule weight (MV) between 21 – 166 kDa. The antigenicity protein test was carried out by dot blot metode and both of them were positive against *Pasteurella multocida* and by western blot metode, both of *Pasteurella multocida* showed an affinity on protein and having 31.51 kDa of M.W

Based on the research, the *Pasteurella multocida* isolate even from Pusvetma and Maros can be judgment for diagnostic agent and subunit vaccine in the future.

Key Word : *Pasteurella multocida*, protein profile, cross reaction affinity.