

## **THE INFLUENCE OF SUPPLYING ANTI WHOLE PROTEIN LARVA SERUM FROM SHEEP TOWARD WEIGHT GAINING OF LARVA MUSCA DOMESTICA BY IN VITRO**

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### **ABSTRACT**

This research was conducted as an effort to develop the myiasis vaccine by house fly (*Musca domestica*) larva in sheep. The research took an in vitro test to *Musca domestica* larva which was given by anti Whole Protein Larva (WPL) serum from sheep had been vaccinated with antigen from the body of house fly larva.

*Musca domestica* larva was extracted in PBS media for whole protein larva isolation. Then, the result was continued by elektroforesis with SDS PAGE to determine the molecular weight from whole protein fraction. Then, the whole protein larva (WPL) was injected into two sheep in subcutaneous with three times booster in two weeks after vaccination. The collecting of anti whole protein larva serum was conducted to test its influence when it was given to *Musca domestica* larva by in vitro test.

Anti whole protein larva serum and control serum from the sheep were added into media where *Musca domestica* larva were developed. The growth of larva was measured by observing the weight changes of larva by three treatments : control, P (I) and P (II).

Result of in vitro test showed that mean weight of larva control were  $0,022 \pm 0,004$  g and decreased 18,18 % into  $0,018 \pm 0,006$  g, P (I) decreased 68 % and larva P (II) decreased 50 %.