

**INFLUENCE OF VARIOUS MEDIA COMPOSITION FOR THE *In Vitro*  
GROWING OF ENTOMOPATOGEN NEMATODA *Steinernema* sp. AND  
THEIR PATOGENESITY TO GRAYAK CATERpillARS (*Spodoptera  
litura*.)**

By: Kezia Dian Ayu Setyoningsih

Supervised by: Chimayatus Solichah

**ABSTRACT**

One of the biological controls of *Spodoptera litura* is entomopathogenic nematodes. The advantage of entomopathogenic nematodes is that they are able to infect and kill the host quickly. This study aims to determine the effect of various media compositions and determine the best media composition in increasing the NEP population and increasing its pathogenicity against *S. litura*. The research was conducted at the Plant Protection Laboratory, Faculty of Agriculture, Universitas Pembangunan Nasional “Veteran” Yogyakarta. The research method used was a completely randomized design (CRD) with 7 treatments and 3 replications. The treatments tried were M1: Soy Flour, M2: Chicken Liver, M3: Chicken Gizzard, M4: Chicken Intestine, M5: Chicken Liver+Soy Flour, M6: Chicken Gizzard+Soy Flour and M7: Chicken Intestine+Soybean Flour. Data were analyzed using analysis of variance (ANOVA) at the 5% level. If it shows a real effect, then it is continued with the Duncan Multiple Range Test (DMRT) at the 5% level. The results showed that the treatment Chicken Gizzard+Soybean Flour had an effect on the NEP population, while Chicken Intestine+Soybean Meal had an effect on *S. litura* mortality.

**Keywords** : Nematodes, *Spodoptera litura*, Chicken Offal, Soybean Flour