

ABSTRAK

EFIKASI FORMULASI CUKA KAYU JATI, EKSTRAK DAUN KIRINYUH DAN SURFAKTAN TERHADAP DAYA HAMBAT MAKAN DAN MORTALITAS LARVA *Crocidolomia pavonana* Fabricius

Oleh

Aditya Rachman Dwi Suwandi
NPM 145001121

Dosen Pembimbing:
Budy Rahmat
Yaya Sunarya

Percobaan dilaksanakan di Laboratorium Fakultas Pertanian Universitas Siliwangi Tasikmalaya pada bulan Agustus sampai bulan September 2018. Tujuan penelitian ini adalah untuk mengetahui pengaruh efikasi formulasi cuka kayu jati, ekstrak daun kirinyuh, dan surfaktan terhadap daya hambat makan dan mortalitas larva *Crocidolomia pavonana* F. Percobaan dilakukan dengan metode celup pada pakan daun sawi yang diujikan pada 10 larva *Crocidolomia pavonana* F. di dalam toples plastik. Percobaan menggunakan Rancangan Acak Lengkap (RAL) yang terdiri dari 9 perlakuan dan 3 kali ulangan. Parameter yang diamati adalah persentase daya hambat makan larva, mortalitas larva pada 24, 48, 72, 96 jam setelah perlakuan dan kecepatan kematian larva. Hasil penelitian menunjukkan bahwa pemberian cuka kayu jati, ekstrak daun kirinyuh dan surfaktan mampu menyebabkan daya hambat makan larva *Crocidolomia pavonana* F. dengan persentase tertinggi pada perlakuan cuka kayu 15%, kirinyuh 10% dan surfaktan yaitu sebesar 43,89% serta menyebabkan mortalitas larva *Crocidolomia pavonana* F. sampai 36,37% setelah aplikasi 96 jam dengan rata-rata kecepatan kematian larva 2,54 larva/hari.

Kata Kunci: Cuka Kayu, *Crocidolomia pavonana* F., Efikasi, Ekstrak daun Kirinyuh, dan Surfaktan

ABSTRACT

EFFICACY OF TEAK WOOD VINEGAR, KIRINYUH LEAF EXTRACT AND SURFACTANTS FORMULATION ON FEEDING INHIBITION AND MORTALITY OF *Crocidolomia pavonana* Fabricius LARVAE

By

Aditya Rachman Dwi Suwandi
NPM 145001121

Supervisor:
Budy Rahmat
Yaya Sunarya

The experiment was conducted at the Laboratory of the Faculty of Agriculture, Siliwangi University, Tasikmalaya from August to September 2018. The purpose of this study was to determine the effect of the formulation of teak vinegar, kirinyuh leaf extract, and surfactants on feeding inhibition and mortality of *Crocidolomia pavonana* F. larvae. The experiment was carried out using the dipping method on mustard leaf which was tested on 10 larvae of *Crocidolomia pavonana* F. in a plastic jar. The experiment was arranged in Completely Randomized Design (CRD) which consisted of 9 treatments and 3 repetitions. The parameters observed were the percentage of larval feeding inhibition, larval mortality at 24, 48, 72, and 96 hours after treatment and the rate of larval death. The results showed that the treatment of teak vinegar, kirinyuh leaf extract and surfactant was able to cause feeding inhibition of *Crocidolomia pavonana* F. larvae with the highest percentage in the treatment of 15% wood vinegar, 10% kirinyuh and surfactant which was 43.89% and caused mortality of *Crocidolomia pavonana* F. up to 36.37% after 96 hours of application with an average larval death rate of 2.54 larvae/day.

Keywords: *Crocidolomia pavonana* F., Efficacy, Kirinyuh Leaf Extract, Surfactant, and Wood Vinegar