

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian ekstrak daun bengkuang terhadap peletakan telur, penetasan telur serta penolakan makan ulat krop kubis *Crociodolomia pavonana*. Penelitian dilaksanakan di Laboraturium Perlindungan Tanaman Fakultas Pertanian Universitas Jenderal Soedirman, Purwokerto, pada bulan Maret sampai dengan bulan Juni 2019. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan dan 5 ulangan. Perlakuan yang dicoba adalah ekstrak daun bengkuang B0 (Kontrol), B1 (20%), B2 (40%), B3 (60%) dan B4 (80%). Variabel yang diamati meliputi jumlah kelompok telur yang diletakan imago *C. pavonana*, persentase penetasan telur dan penolakan makan *C. pavonana*. Hasil penelitian menunjukan bahwa 1) perlakuan ekstrak daun bengkuang konsentrasi 80% mampu menghambat peletakan telur imago *C. pavonana* sebesar 90,2%, 2) pemberian perlakuan ekstak daun bengkuang konsentrasi 20-80% hanya mampu menekan penetasan telur *C. pavonana* sebesar 6%, 3) pemberian ekstrak daun bengkuang mampu menurunkan penolakan makan larva *C. pavonana* pada konsentrasi 80% sebesar 44,4%.

Kata kunci: *Crociodolomia pavonana*, ekstrak daun bengkuang, konsentrasi

ABSTRACT

The research was aimed to know the effect of application of yam leaf ekstrak in controlling egg laying, egg hatching and refusal to eat cabbage head carterpillar (*Crociodolomia pavonana*). This research was conducted in Plant Protection Laboratory of Faculty of Agriculture, Jenderal Soedirman University, Purwokerto, from March to June 2019. This study uses a completely randomized design (CRD) with 5 treatments and 5 replications. The treatments which used were yam leaf extract B0 (Control), B1 (20%), B2 (40%), B3 (60%), and B4 (80%). The variables observed include the number of eggs laying, percentage of hatching eggs and refusal to eat of *C. pavonana*. The results showed that 1) the application of yam leaf extract by concentration 80% can able to inhibit laying eggs of *C. pavonana* imago, 2) the application of yam leaf extract by concenteration of 20-80% only able to suppress hatching eggs of *C. pavonana* 6%, 3) the application of yam leaf extract able to reduce teh refusal to eat *C. pavonana* larvae of concentration 80% development of 44,4%.