

Istigar Prana 13.03.1.1.1.00.91. "Efektifitas Insektisida Nabati Umbi Gadung (*Dioscorea Hispida Dennst*) Dan Serai Wangi (*Cymbopogon Nardus L*) Terhadap Mortalitas Ulat Grayak (*Spodoptera Litura F*)" di Bawah Bimbingan Dr. Ir. Gita Pawana, M.Si

ABSTRAK

Penelitian ini bertujuan untuk mengetahui efektifitas kombinasi insektisida serai wangi (*Cymbopogon Nardus L*) dan umbi gadung (*Dioscorea Hispida Dennst*) terhadap mortalitas ulat grayak (*Spodoptera litura F*). Penelitian ini dilakukan pada bulan Februari 2017 - Mei 2017 di Laboratorium Balai Besar Perbenihan dan Proteksi Tanaman Perkebunan (BBPPTP) Surabaya. Penelitian ini menggunakan Rancangan Acak Lengkap dengan 5 perlakuan, A1= Kontrol, A2=Lc₂₅ serai wangi+Lc₅₀ umbi gadung, A3= Lc₅₀ serai wangi + Lc₂₅ umbi gadung, A4= Lc₇₅ serai wangi, A5= Lc₇₅ umbi gadung serta diulang lima kali. Setelah dilakukan olah data dengan menggunakan ANOVA, hasil penelitian menunjukkan bahwa perlakuan A3 Lc₅₀ serai wangi + Lc₂₅ umbi gadung merupakan perlakuan terbaik untuk mematikan larva uji *Spodoptera litura F* dengan persentase mortalitas meski tidak berbeda signifikan dengan perlakuan tunggal Lc₇₅ serai wangi.

Kata kunci : Serai wangi, umbi gadung, *spodoptera litura*, insektisida, kombinasi

Istigar Prana 13.03.1.1.1.00.091. "The Effectiveness of Insecticide of vegetables gadung tuber (*Dioscorea Hispida* Dennst) and Lemon grass (*Cymbopogon Nardus* L) Against Mortality of Grayak Caterpillars (*Spodoptera Litura* F)" Under the Guidance. Ir. Gita Pawana, M.Si

ABSTRACT

This study aims to determine the effectiveness of the combination of insecticide citronella (*Cymbopogon Nardus* L) and gadung tubers (*Dioscorea Hispida* Dennst) on the mortality of grayak caterpillars (*Spodoptera litura* F). The research was conducted in February 2017 - May 2017 at the Laboratory of Indonesian Center for Plant Breeding and Plant Protection (BBPPTP) Surabaya. This study uses a Completely Randomized Design with 5 treatments, A1 = Control, A2 = LC₂₅ lemon grass + LC₅₀ gadung tubers, A3 = LC₅₀ lemon grass + LC₂₅ tubers, A4 = LC₇₅ lemon grass, A5 = LC₇₅ gadung tubers which has repeated five times. After the data were completed by using ANOVA, the result showed that the A3 LC₅₀ lemon grass perfume + LC₂₅ gadung tubers are the best treatment to kill *Spodoptera litura* F test larvae with high percentage of mortality even though it has no significant differentiation compared to single treatment of LC₇₅ citronella.

Keywords: lemon grass, gadung tuber, *spodoptera litura*, insecticide, combination