

ABSTRAK

UJI EFEKTIVITAS EKSTRAK DAUN *Clidemia hirta* L. TERHADAP PERKECAMBAHAN DAN PERTUMBUHAN GULMA *Praxelis clematidea* PADA PEMBIBITAN KAKAO

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Clidemia hirta L. memiliki potensi sebagai herbisida nabati karena kandungan senyawa alelopati dalam daunnya. Tujuan penelitian ini adalah mengetahui pengaruh ekstrak daun *Clidemia hirta* L. terhadap perkecambahan dan pertumbuhan gulma *Praxelis clematidea* pada pembibitan kakao. Penelitian dilaksanakan pada Oktober 2024 sampai Januari 2025 di Laboratorium Ilmu Gulma, Fakultas Pertanian, Universitas Lampung dan Rumah Plastik Labuhan Dalam, Bandar Lampung. Penelitian terdiri dari 6 taraf perlakuan yaitu kontrol atau tanpa ekstrak, konsentrasi ekstrak daun *Clidemia hirta* L. 1,5%; 3,0%; 4,5%; 6,0%; dan 7,5%. Pada percobaan di laboratorium menggunakan Rancangan Acak Lengkap (RAL) dan percobaan di rumah plastik menggunakan Rancangan Acak Kelompok (RAK) yang masing-masing diulang sebanyak 4 kali sehingga diperoleh 48 unit percobaan. Data dianalisis menggunakan Uji Bartlett untuk menguji homogenitas, asumsi terpenuhi dilanjutkan dengan sidik ragam dan uji Beda Nyata Terkecil (BNT) pada taraf 5% digunakan untuk menguji perbedaan nilai tengah. Hasil menunjukkan ekstrak daun *Clidemia hirta* L. konsentrasi 4,5% hingga 7,5% mampu menghambat perkecambahan gulma *Praxelis clematidea* 65,5% sampai 98% dan menghambat pertumbuhan gulma *Praxelis clematidea* 47,54% sampai 79,76%. Ekstrak daun *Clidemia hirta* L. pada konsentrasi 1,5% sampai 7,5% tidak menghambat pertumbuhan bibit tanaman kakao.

Kata kunci: *Praxelis clematidea*, Ekstrak daun *Clidemia hirta* L., perkecambahan, pertumbuhan, kakao

ABSTRACT

EFFECTIVENESS TEST OF *Clidemia hirta* L. LEAF EXTRACT ON THE GERMINATION AND GROWTH OF *Praxelis clematidea* WEEDS IN CACAO SEEDLINGS

By

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Clidemia hirta L. has the potential as a botanical herbicide due to the content of allelopathic compounds in its leaves. The purpose of this study was to determine the effect of *Clidemia hirta* L. leaf extract on the germination and growth of *Praxelis clematidea* weeds in cocoa seedlings. The study was conducted from October 2024 to January 2025 at the Weed Science Laboratory, Faculty of Agriculture, University of Lampung and Labuhan Dalam Plastic House, Bandar Lampung. The study consisted of 6 treatment levels, namely control or without extract, *Clidemia hirta* L. leaf extract concentration of 1.5%; 3.0%; 4.5%; 6.0%; and 7.5%. In the laboratory experiment using a Completely Randomized Design (CRD) and the experiment in the plastic house using a Randomized Block Design (RAK) which was repeated 4 times each so that 48 experimental units were obtained. Data were analyzed using the Bartlett Test to test homogeneity, the assumptions were met, continued with analysis of variance and the Least Significant Difference (LSD) test at the 5% level was used to test the difference in mean values. The results showed that *Clidemia hirta* L. leaf extract with a concentration of 4.5% to 7.5% was able to inhibit the germination of *Praxelis clematidea* weeds by 65.5% to 98% and inhibit the growth of *Praxelis clematidea* weeds by 47.54% to 79.76%. *Clidemia hirta* L. leaf extract at a concentration of 1.5% to 7.5% did not inhibit the growth of cocoa seedlings.

Keywords: *Praxelis clematidea*, Leaf extract of *Clidemia hirta* L., germination, growth, cocoa