

PENGARUH PERANGSANG AKAR ALAMI TERHADAP PERTUMBUHAN STEK MELADA (*Piper colubrinum* L.)

Helena Anjeli⁽¹⁾, Sarbino⁽²⁾, Nur Arifin⁽²⁾

⁽¹⁾ Mahasiswa Prodi Agroteknologi Fakultas Pertanian Universitas
Tanjungpura

⁽²⁾ Dosen Prodi Agroteknologi Fakultas Pertanian Universitas
Tanjungpura, Pontianak

Email : helenaanjeli@student.untan.ac.id

ABSTRAK

Melada (*Piper colubrinum* L.) famili piperaceae berhabitus perdu yang resisten *Phytophthora capsici* digunakan sebagai batang bawah penyambungan dengan tanaman lada. Melada adalah spesies piper yang paling besar persentase perakarannya berkisar 82,24 %, pertumbuhannya cepat sehingga efektif jika diperbanyak secara stek batang. Tujuan penelitian ini adalah untuk mengetahui pengaruh perangsang akar alami terhadap pertumbuhan stek melada. Penelitian ini dilaksanakan didalam green house Fakultas Pertanian Universitas Tanjungpura, Pontianak dari tanggal 30 September - 30 November 2022. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) yang terdiri dari 5 perlakuan yaitu K = rootone-F (kontrol), A = bawang merah 75%, B = air kelapa 75%, C = daun kelor 75%, D = urine sapi 75%. Variabel yang diamati adalah persentase tumbuh, jumlah daun, jumlah tunas, waktu muncul tunas, panjang tunas, panjang akar, jumlah akar dan volume akar. Hasil penelitian ini menunjukkan bahwa pemberian zat perangsang akar alami ekstrak daun kelor dan air kelapa dengan konsentrasi 75% lebih efektif sebagai pengganti zat perangsang akar sintetis dalam meningkatkan persentase tumbuh pada stek tanaman melada.

Kata Kunci : *air kelapa, bawang merah, daun kelor, Rootone-F, urine sapi, melada*

THE EFFECT OF NATURAL ROOT STIMULANT ON THE GROWTH OF MELADA CUTTINGS (*Piper colubrinum* L.)

Helena Anjeli⁽¹⁾, Sarbino⁽²⁾, Nur Arifin⁽²⁾

***⁽¹⁾ Student of Agrotechnology Study Program, Faculty of Agriculture, University of
Tanjungpura***

***⁽²⁾ Lecturer in Agrotechnology Study Program, Faculty of Agriculture, University
of Tanjungpura, Pontianak***

Email : helenaanjeli@student.untan.ac.id

ABSTRACT

*Melada (*Piper colubrinum* L.) from the piperaceae family with a bushy habit that is resistant to *Phytophthora capsici* is used as rootstock for grafting with pepper plants. Melada is a piper species with the highest percentage of roots around 82.24%, its growth is fast so it is effective if it is propagated by stem cuttings. The purpose of this study was to determine the effect of natural root stimulants on the growth of cuttings of peppercorns. This research was conducted in the green house of the Faculty of Agriculture, Tanjungpura University, Pontianak from 30 September - 30 November 2022. This study used a Completely Randomized Design (CRD) which consisted of 5 treatments, namely K = rootone-F (control), A = shallot 75 %, B = 75% coconut water, C = 75% Moringa leaves, D = 75% cow urine. The variables observed were growth percentage, number of leaves, number of shoots, time of emergence of shoots, shoot length, root length, number of roots and root volume. The results of this study indicated that the administration of natural root stimulants of Moringa leaf extract and coconut water at a concentration of 75% was more effective as a substitute for synthetic root stimulants in increasing the growth percentage of cuttings of pepper plants.*

Keywords: coconut water, shallots, moringa leaves, rootone-F, cow urine, pepper