

ABSTRAK

Ahmad Zuheri Pulungan, NIM : 09 821 0005, "Studi Sumber Stek Daun Dengan Pemberian Rootone-F dan Benzil Amino Purin (BAP) Terhadap Pertumbuhan Tunas Stek Daun Kakao (*Theobroma Cacao*)" dibimbing oleh Ibu Prof. Dr. Ir. Hj. Retna Astuti K, MS. Selaku ketua komisi pembimbing dan Ibu Ir. Ellen. L. Panggabean, MP. Selaku anggota komisi pembimbing.

Rendahnya produktivitas kakao di Indonesia disebabkan oleh teknologi budidaya tanaman kakao yang masih sederhana, serta penggunaan bahan tanam kakao yang mutunya kurang baik. Sehingga perlu dilakukan penelitian untuk penggunaan bibit unggul yang relatif mudah dan praktis yaitu dengan cara stek daun. Penelitian tentang "Studi Sumber Stek Daun Dengan Pemberian Rootone-F dan Benzil Amino Purin (BAP) Terhadap Pertumbuhan Tunas Stek Daun Kakao (*Theobroma Cacao*)" telah dilaksanakan di kebun percobaan Fakultas Pertanian Universitas Medan Area, Jalan Kolam No. 1 Medan Estate, mulai bulan Mei sampai Juli 2014.

Tujuan penelitian ini adalah: 1. Meningkatkan persentase pertumbuhan stek daun kakao. 2. Mengetahui pengaruh hasil ZPT Rootone-F dan Benzil Amino Purin (BAP) terhadap keberhasilan stek daun kakao. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) faktorial, 3 x 3 dengan 3 ulangan sehingga diperoleh sembilan kombinasi perlakuan. Hasil penelitian menunjukkan bahwa pertumbuhan stek daun kakao dengan penggunaan ZPT pada berbagai konsentrasi tidak memberikan pengaruh yang nyata terhadap pertumbuhan stek daun.

Berdasarkan hasil penelitian dapat disimpulkan bahwa: 1. Stek daun kakao mempunyai potensi untuk dikembangkan sebagai alternatif cara perbanyakan tanaman. Pemberian ZPT Rootone-F pada perlakuan R1B3 dapat memberikan persentase hidup tertinggi mencapai 56,67%. 2. Pemberian ZPT Rootone-F dan Benzil Amino Purin (BAP) menunjukkan pengaruh yang tidak nyata pada pertumbuhan kalus terhadap semua perlakuan stek daun kakao.

Kata Kunci : Kakao ,Rootone-F, BAP, Stek daun.

ABSTRACT

Ahmad Zuheri Pulungan, NIM: 09 821 0005, "Study Source Cuttings Leaves With Giving Rootone-F and Benzyl Amino Purine (BAP) on growth Tunas Leaf Cuttings Cocoa (*Theobroma Cacao*)" led by Mrs. Prof. Dr. Ir. Hj. Retna Astuti K, MS. As the head of the supervising commission and Mrs. Ir. Ellen. L. Panggabean, MP. As a member of the supervising committee.

The low productivity of cocoa in Indonesia caused by the cocoa crop cultivation technologies that are still modest, and the use of cocoa planting material quality is not good. So we need to study the use of seeds that are relatively easy and practical is by way of leaf cuttings. Research on "Study Source Cuttings Leaves With Giving Rootone-F and Benzyl Amino Purine (BAP) on growth Tunas Leaf Cuttings Cocoa (*Theobroma Cacao*)" have conducted experiments in the garden of the Faculty of Agriculture, University Medan Area, Jalan Kolam No. 1 Medan Estate, from May to July 2014.

The purpose of this study are: 1. Increase the percentage growth of the cocoa leaf cuttings. 2. Determine the influence of PGR results Rootone-F and Benzyl Amino Purine (BAP) on the success of the cocoa leaf cuttings. This study uses a completely randomized design (CRD) factorial, 3 x 3 with three replications to obtain nine treatment combinations. The results showed that the growth of the cocoa leaf cuttings with the use of PGR at various concentrations no significant effect on the growth of leaf cuttings.

Based on the results of this study concluded that: 1. Cocoa leaf cuttings has the potential to be developed as an alternative way of plant propagation. PGR granting Rootone-F on R1B3 treatment can give the highest percentage of survival reached 56.67%. 2. Granting of PGR Rootone-F and Benzyl Amino Purine (BAP) showed no real influence on the growth of callus on all treatments cocoa leaf cuttings.

Keywords: Cocoa, Rootone-F, BAP, leaf cuttings.