PENGARUH RASIO ARANG SEKAM:COCOPEAT SEBAGAI MEDIA HIDROPONIK TERHADAP PERTUMBUHAN DAN HASIL TERUNG

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INTISARI

Media dalam hidroponik merupakan komponen penting karena menetukan kecukupan air, nutrisi, dan udara bagi tanaman. Penelitian ini bertujuan untuk memperoleh rasio yang tepat campuran media arang sekam: cocopeat dalam hidroponik terong. Kegiatan penelitian dilaksanakan dari bulan Januari- Maret 2019 di Greenhouse dan laboratorium Agronomi Program Studi Agroteknologi, Fakultas Agroindustri, Univesitas Mercu Buana Yogyakarta,. Penelitian menggunakan rancangan acak lengkap (RAL), faktor tunggal yaitu campuran media dengan tiga rasio arang sekam: cocopeat 1:1, 1:2 dan 2:1. Tiap perlakuan menggunakan sepuluh tanaman dan diulang tiga kali. Hasil penelitian menunjukan Perlakuan media campuran dengan rasio sekam : cocopeat sebesar 1:1, 1:2, maupun 2:1 tidak menberikan perbedaan pertumbuhan tanaman dan hasil terong, sehingga ketiga rasio tersebut sama baiknya untuk digunakan sebagai media tanam hidroponik sistem tetes tanaman terong.

Kata Kunci : Arang sekam, cocopeat, hidroponik, terong

EFFECT OF HUSK CHARCOAL:COCOPEAT COIR RATIO AS HYDROPHONIC MEDIA ON GROWTH AND YIELD OF EGGPLANT

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ABSTRACT

Media in hydrophonic is a important component because of enable availability of water, nutrient, and oxygen needed plants. The purpose of this research was to obtain husk charcoal : coconut coir ratio on hydrophonic medium of eggplant. The study was carried out from January to March 2018 in the greenhouse and the agronomy laboratory, Department of Agrtechnology, Faculty of Agroindustry, Mercu Buana University of Yogyakarta. The research was a single-factor experiment arranged in complete randomized design with three treatments namely 1:1, 1;2, and 2:1 husk charcoal : coconut coir ratio. Each treatmen used ten plants replicated three times. *The observed parameters were plant height, stem base diameter, number of leaf, plant fresh weight, dried plant weight, fuit number per plant, fuit diameter per plant, and fruit weight per plant. Analysis of Variance was then employed to* analyze *the data, if significant different followed by Duncan's Multiple Range Test (α: 5%). The results showed that husk charcoal : coconut coir ratio on didn't effect growth ang yield of eggplant* h*ydrophonic, so that all of three ratio were good same as eggplant hydropnic media.*

Keywords : Husk charcoal, cocopeat, hydroponics, eggplant