

KAJIAN PERTUMBUHAN DAN HASIL SAWI PAGODA (*Brassica narinosa* L.) PADA BERBAGAI JENIS POC SISTEM HIDROPONIK SUMBU

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ABSTRAK

Sawi pagoda ialah sayuran bernilai jual tinggi yang dapat dibudidayakan secara hidroponik dengan AB Mix. Salah satu untuk mengurangi dampak bahan anorganik adalah penggunaan pupuk organik cair. Penelitian ini bertujuan mengetahui pengaruh, jenis dan konsentrasi pupuk organik cair yang paling baik terhadap pertumbuhan dan hasil sawi pagoda sistem hidroponik sumbu. Metode penelitian yang digunakan adalah percobaan lapangan dengan rancangan lingkungan menggunakan Rancangan Acak Lengkap (RAL) dengan 10 perlakuan dan 3 kali ulangan. Perlakuannya meliputi AB Mix 100%, serta AB Mix 50% dengan pupuk organik cair daun kelor, pupuk organik cair azolla, dan pupuk organik cair daun kipahit masing-masing pada konsentrasi 10 mL/L, 20 mL/L, dan 30 mL/L. Data dianalisis menggunakan ANOVA kemudian diuji lanjut menggunakan DMRT taraf 5%. Hasil penelitian menunjukkan pemberian pupuk organik cair berpengaruh nyata pada jumlah daun 29 HST, 37 HST, dan 45 HST, diameter krop umur 37 HST, dan 45 HST, luas daun, bobot segar, dan bobot ekonomis. Perlakuan konsentrasi AB Mix 50% + pupuk organik cair daun kelor 10 mL/L memberikan pertumbuhan dan hasil yang baik pada parameter jumlah daun 37 HST dan 45 HST, diameter krop umur 37 HST, luas daun, bobot segar, bobot ekonomis.

Kata kunci : Sawi Pagoda, Pupuk Organik Cair, Hidroponik

STUDY OF GROWTH AND YIELD OF PAGODA MUSTARD (*Brassica narinosa* L.) IN VARIOUS TYPES OF POC WICK HYDROPONIC SYSTEMS

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ABSTRACT

Pagoda mustard is a high value vegetable that can be cultivated hydroponically using AB Mix. One way to reduce the impact of inorganic materials is to use liquid organic fertilizer. This study aims to determine the effect, type, and concentration of liquid organic fertilizer that is most effective for the growth and yield of pagoda mustard in a hydroponic wick system. The research method used was a field experiment with a complete randomized design (CRD) with 10 treatments and 3 replicates. The treatments included 100% AB Mix, as well as 50% AB Mix with moringa leaf liquid organic fertilizer, azolla liquid organic fertilizer, and bitter leaf liquid organic fertilizer at concentrations of 10 mL/L, 20 mL/L, and 30 mL/L. The resulting data were analyzed using 5% ANOVA and further using 5% DMRT. The data were analyzed using ANOVA and then further tested using DMRT at the 5% level. The results showed that the application of liquid organic fertilizer had a significant effect on the number of leaves at 29, 37, and 45 days after planting, the diameter of the crop at 37, and 45 days after planting, leaf area, fresh weight, and economic weight. The treatment of AB Mix 50% concentration + liquid organic fertilizer of moringa leaves at 10 mL/L resulted in good growth and yield in terms of the number of leaves at 37, and 45 days after planting, fruit diameter at 37 days after planting, leaf area, fresh weight, and economic weight.

Keywords: Pagoda Mustard Greens, Liquid Organic Fertilizer, Hydroponics