

ANALISIS PENGARUH AIR CUCIAN BERAS TERHADAP PERTUMBUHAN TANAMAN SAWI (*Brassica juncea* L.) PADA HIDROPONIK SISTEM SUMBU

*Analysis on The Effect of Rice Rinsing Water on The Growth of Green Mustards (*Brassica juncea* L.) Plants at Wick System Hydroponics*

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ABSTRAK

Tujuan dari penelitian ini adalah mengetahui respon perlakuan pemberian air bilasan beras terhadap pertumbuhan tanaman Sawi serta menentukan potensi perlakuan yang paling baik pada perlakuan pemberian air cucian beras 300 ml, 250 ml, dan 200 ml. Metode penelitian yang digunakan pada penelitian ini yaitu metode eksperimental dengan percobaan di lapangan. Parameter penelitian yang diamati pada penelitian ini adalah pengukuran Ketinggian air, *Potensial Hydrogen* (pH), *Electrical Conductivity* (EC), *Total Dissolve Solid* (TDS), Lemas media, Tinggi tanaman, Jumlah daun, Lebar daun, Berat segar tanaman. Berdasarkan hasil penelitian, Air cucian beras memiliki manfaat yang baik untuk tanaman Sawi, hal ini terlihat dari adanya respon yang baik terhadap pertumbuhan tinggi tanaman, lebar daun, jumlah daun, berat segar tanaman Sawi. Perlakuan c3 (air cucian beras 300) ml paling baik jika dibandingkan dengan perlakuan c2 (air cucian beras 250 ml) dan c1 (air cucian beras 200 ml). Hal ini dibuktikan dari hasil rata-rata tertinggi untuk semua parameter diamati. Nilai rata-rata tertinggi untuk perlakuan c3 pupuk organik air beras 300 ml adalah Tinggi tanaman 14,96 cm, Lebar daun 7,18 cm, Jumlah daun 10 helai, dan Berat segar tanaman 6,274 g.

Kata kunci: air bilasan beras; *Brassica juncea*; pupuk organik

ABSTRACT

The purpose of this study was to determine the response of various waste water of rice rinsing process as organic fertilizer to the growth of mustard plants. Furthermore, this experiment tried to determine the best rice rinsing water volume of 300 ml, 250 ml, and 200 ml. The research method used in this study was an experimental method with field experiments. The research parameters observed in this study were the measurement of water level, Potential Hydrogen (pH), Electrical Conductivity (EC), and TDS of the Nutrient Solution, Moisture of the media, Plant height, Number of leaves, Width of leaves, and Plant fresh weight. The results of this research showed that rice rinsing water able to provide sufficient nutrient for mustard plants. The evidence could be seen from proper response to the growth of plant height, leaf width, number of leaves, and fresh weight of mustard plants. Treatment of c3 (300 ml rice rinsing water) is the best when compared to c2 treatment (250 ml rice rinsing water) and c1 (200 ml rice rinsing water), shown by the highest average results for all observed parameters. The highest

average value for c3 treatment of 300 ml of rice water was plant Height of 14.96 cm, leaf Width of 7.18 cm, Number of leaves was 10, and plant fresh Weight was 6.274 g.

Keywords: *rice rinsing water; Brassica juncea; organic fertilizer*