ABSTRAK

Anindya Aulia Putri, NIM 4203220008 (2025), Pengaruh Konsentrasi Nutrisi AB Mix Terhadap Pertumbuhan dan Produksi Tanaman Pakcoy (*Brassica rapa* var. *chinensis* L.) Menggunakan Sistem Hidroponik Sumbu *(Wick System)*.

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian nutrisi AB Mix terhadap terhadap pertumbuhan dan produksi tanaman pakcoy. Penelitian dilaksanakan di rumah peneliti sendiri yaitu di Jalan Santun nomor 30, Kecamatan Sudirejo 1, Kota Medan, Provinsi Sumatera Utara. Jenis penelitian adalah penelitian eksperimental dengan menggunakan Rancangan Acak Lengkap Non-Faktorial dengan jumlah perlakuan sebanyak 5 dan ulangan 5 dengan jumlah keseluruhan sampel 25 bak penampung dengan jumlah tanaman sebanyak 125 tanaman. Parameter yang diamati adalah tinggi tanaman, jumlah daun, panjang daundan berat per tanaman pasca panen. Data dianalisis menggunakan Analysis of Variance (Anova) dilanjutkan dengan uji lanjut duncan (DMRT). Hasil penelitian yang diperoleh bahwa nutrisi AB Mix memberikan pengaruh nyata terhadap pertumbuhan dan produksi tanaman pakcoy (Brassica rapa var chinensis L.), pertumbuhan tanaman terbaik terdapat pada perlakuan A3 (30 ml) dengan tinggi tanaman pada 5 MST setinggi 24 cm, jumlah daun 22 helai, panjang daun 20 cm dan berat tanaman 39,6 gr. Dosis yang menunjukkan hasil optimum terhadap pertumbuhan dan produksi tanaman selada didapatkan pada perlakuan A3 (30 ml).

Kata Kunci : *Brassica rapa* var. *chinensis* L., Nutrisi AB Mix, Sistem Hidroponik Sumbu.

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ABSTRACT

Anindya Aulia Putri, NIM 4203220008 (2025), The Effect of AB Mix Nutrient Concentration on the Growth and Production of Pakcoy Plants (*Brassica rapa* var. *chinensis* L.) Using a Wick Hydroponic System.

This research aims to determine the effect of providing AB Mix nutrition on the growth and production of pakcoy plants. The research was carried out in the researcher's own home, namely on Jalan Santun number 30, Sudirejo 1 District, Medan City, North Sumatra Province. The type of research is experimental research using a Completely Randomized Non-Factorial Design with a total of 5 treatments and 5 replications with a total sample of 25 holding tanks with a total of 125 plants. The parameters observed were plant height, number of leaves, leaf length and weight per plant after harvest. Data were analyzed using Analysis of Variance (Anova) followed by the Duncan Advanced Test (DMRT). The research results showed that AB Mix nutrition had a real influence on the growth and production of pakcoy plants (Brassica rapa var chinensis L.), the best plant growth was in treatment A3 (30 ml) with plant height at 5 WAP as high as 24 cm, number of leaves 22 strands, leaf length 20 cm and plant weight 39.6 gr. The dose that showed optimum results for the growth and production of lettuce plants was obtained in treatment A3 (30 ml).

Keywords: *Brassica rapa* var. *chinensis* L., AB Mix Nutrition, Axis Hydroponic System.

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