

ABSTRAK

Zahara Mawaddah. 2021. Pengaruh Campuran Konsentrasi Pupuk Organik Cair Bonggol Pisang (*Musa paradisiaca*) dengan Unsur Hara Makro Nutrisi Hidroponik terhadap Pertumbuhan Tanaman Pakcoy (*Brassica rapa* L.) Sistem NFT. Di bawah bimbingan Suryaman Birnadi dan Budy Frasetya Taufik Qurrohman.

Pakcoy (*Brassica rapa* L.) merupakan tanaman yang digemari oleh masyarakat dengan nilai ekonomis tinggi. Pakcoy memiliki banyak manfaat, diantaranya mengandung vitamin dan mineral. Salah satu cara untuk menghemat biaya, perlu diupayakan alternatif nutrisi yang lebih murah. Penelitian ini ditujukan untuk melihat pengaruh campuran konsentrasi POC bonggol pisang dengan unsur hara makro nutrisi hidroponik terhadap pertumbuhan tanaman pakcoy. Penelitian ini dilaksanakan pada bulan Juli-Agustus 2020 di Kampung Talang Tapan, Kenagarian Talang Koto Pulai Tapan. Kec. Ranah Ampek Hulu Tapan, Kab. Pesisir Selatan Sumatera Barat. Penelitian menggunakan Rancangan Acak Lengkap dengan satu faktor, yaitu campuran pupuk organik cair bonggol pisang dengan unsur hara makro nutrisi hidroponik. Terdapat lima perlakuan dengan lima ulangan, yaitu p0 (AB mix lengkap), p1 (AB mix makro), p2 (POC 2% + AB mix makro), p3 (POC 4% + AB mix makro), p4 (POC 6% + AB mix makro) sehingga terdapat 25 satuan percobaan. Berdasarkan hasil penelitian menunjukkan bahwa pencampuran POC bonggol pisang dengan unsur hara mikro nutrisi hidroponik berpengaruh terhadap pertumbuhan tanaman pakcoy dengan sistem NFT, kecuali terhadap bobot kering tanaman. Pemberian nutrisi AB mix dengan unsur hara lengkap memberikan pengaruh terbaik terhadap tinggi tanaman, luas daun dan bobot segar tanaman.

ABSTRACT

Zahara Mawaddah. 2021. The Effect of Mixing Concentration of Banana Weevil Liquid Organic Fertilizer (*Musa paradisiaca*) with Hydroponic Macronutrients on Pak Choy Plant Growth (*Brassica rapa* L.) NFT System. Under the guidance of Suryaman Birnadi and Budy Frasetya Taufik Qurrohman.

Pak Choy (*Brassica rapa* L.) is a plant favoured by people with high economic value. Pak Choy has many benefits, including vitamins and minerals. One way to save cost, is necessary to seek nutritional alternatives that are cheaper. This research aimed to see the effect of mixing the concentration of banana Weevil Liquid Organic (WLO) fertilizer with hydroponic macronutrients on pak choy plants' growth. This research was conducted in July-August 2020 in Talang Tapan Village, Talang Koto Pulai Tapan sub-district, Ranah Ampek Hulu Tapan district, South Pesisir district of West Sumatera. The study used a Completely Randomized Design (CRD) with one factor of effect of mixing concentration of banana weevil liquid organic fertilizer with hydroponic macronutrients. There were five treatments with five replication, namely p0 (AB mix complete), p1 (AB mix macro), p2 (WLO 2% + AB mix macro), p3 (WLO 4% + AB mix macro), p4 (WLO 6% + AB mix macro), so there were 25 experimental units. The study results showed that mixing banana weevil WLO with hydroponic micronutrient elements affected on the growth of pak choy plants with the NFT system, except for plant dry weight. The provision of AB mix nutrition with completed nutrients has the best effect on plant height, leaf area and plant fresh weight.