

PENGARUH PEMBERIAN PUPUK AB MIX TERHADAP TANAMAN TOMAT (*Lycopersicum esculentum* Mill.) PADA HIDROPONIK SUMBU

ABSTRAK

Tanaman tomat merupakan tanaman hortikultura yang memiliki nilai ekonomi tinggi. Tanaman ini berfungsi sebagai nutrisi seperti vitamin, mineral dan kalium yang baik untuk kesehatan. Selain itu tomat juga berguna sebagai bahan baku industri makanan. Hidroponik sistem sumbu ini merupakan sistem sederhana karena tidak menggunakan pompa atau listrik. Budidaya dengan hidroponik ini memiliki keunggulan seperti mampu mengurangi masalah hama dan penyakit. Penelitian ini bertujuan untuk mengetahui pengaruh konsentrasi AB Mix terhadap pertumbuhan dan hasil tanaman tomat dalam hidroponik sumbu. Penelitian ini dilaksanakan di Desa Barurambat, Kabupaten Pamekasan dari bulan Februari hingga Mei 2022. Percobaan dalam penelitian ini disusun dalam Rancangan Acak Lengkap (RAL) non faktorial dengan 6 perlakuan konsentrasi AB mix, yaitu H1 [tanpa nutrisi AB Mix (kontrol)], H2 (2 mL/L), H3 (5 mL/L), H4 (10 mL/L), H5 (15 mL/L), H6 (20 mL/L). Parameter yang diamati ialah tinggi tanaman (cm), jumlah daun (helai), jumlah bunga, diameter batang tanaman, bobot buah tomat (g), diameter buah tomat, panjang akar (cm). Berdasarkan hasil penelitian menunjukkan bahwa perlakuan H3 (5 mL/L) memberikan pengaruh yang nyata terhadap tinggi tanaman, jumlah daun, jumlah bunga. Pada perlakuan H1 (Tanpa pupuk AB Mix (Kontrol)) memberikan pengaruh nyata terhadap bobot buah dan diameter buah.

Kata Kunci: Tanaman Tomat, Hidroponik Sistem Sumbu, Pupuk AB Mix

THE EFFECT OF AB MIX FERTILIZER ON TOMATO PLANTS (*lycopersicum esculentum* Mill.) ON HYDROPONIC WICK

ABSTRACT

The tomato plant is an annual horticultural plant which has high economic value, and also has many nutrients such as vitamins, minerals and potassium which are good for health. Apart from that, tomatoes are also useful as raw materials for the food industry. This hydroponic wick system is a simple system because it does not use a pump or electricity. Hydroponic cultivation has advantages such as being able to reduce pest and disease problems. The media used are husk charcoal and cocopeat, because they are able to absorb the nutrients needed by plants and are also organic planting media which are environmentally friendly and have quite good absorption capacity. The objective of this study was to assess the effect of cocentration of AB Mix fertilizer on the growth and yield of tomato plants. This research was conducted in Barurambat Village, Pamekasan Regency from February to May 2022. The experiment in this research was arranged on a Completely Randomized Design consisting 6 treatments of AB mix application which were H1 (without AB Mix nutrition (control)), H2 (2 mL/L), H3 (5 mL/L), H4 (10 mL/L), H5 (15 mL/L), H6 (20 mL/L). The parameters observed were plant height (cm), number of leaves (strands), number of flowers, plant stem diameter (mm), tomato fruit weight (g), tomato diameter, root length (cm). Result showed that the H3 treatment (AB Mix Nutrients 5 mL/L) significantly affected plant height, number of leaves, and number of flowers. The treatment H1 [(Without AB Mix Nutrients) (Control)] had a significant effect on fruit weight and fruit diameter.

Keywords: Tomato Plants, Hydroponic wick system, AB Mix Fertilize