

PENGARUH KONSENTRASI PUPUK ORGANIK CAIR DARI LIMBAH PASAR TERHADAP PERTUMBUHAN ANGGREK DENDROBIUM

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INTISARI

Penelitian ini bertujuan untuk mengetahui respon pertumbuhan Anggrek Dendrobium dengan pemberian pupuk organik cair dari limbah pasar dan mengetahui konsentrasi pupuk organik cair limbah pasar yang paling baik untuk pertumbuhan Anggrek Dendrobium. Penelitian disusun dengan menggunakan Rancangan Acak Lengkap (RAL), dengan faktor tunggal. Faktor yang dimaksud adalah konsentrasi POC limbah pasar dengan 5 taraf perlakuan yaitu : P0 : Tanpa pemupukan (digunakan air saja), P1 : Pupuk Dekastar 5g/pot, P2 : Perlakuan POC 15ml/l, P3 : Perlakuan POC 25 ml/l, P4 : Perlakuan POC 35 ml/l. Masing – masing perlakuan diulang 3 kali sehingga terdapat $5 \times 3 = 15$ unit. Masing-masing unit perlakuan terdiri 5 pot/ tanaman, sehingga keseluruhan tanaman yang diperlukan sebanyak $5 \times 3 \times 5 = 75$ tanaman . Berdasarkan hasil penelitian memberikan hasil yang berbeda nyata terhadap tinggi tanaman, panjang daun, diameter batang, bobotbiomasa dan memberikan hasil tidak berbeda nyata terhadap jumlah daun, panjang akar, jumlah akar, dan jumlah anakan. Penambahan POC limbah Pasar mampu meningkatkan pertumbuhan tanaman Anggrek Dendrobium. Perlakuan POC Sampah pasar dengan konsentrasi 15 ml/l dan 25 ml/l memberikan pengaruh pertumbuhan dan hasil yang paling baik.

Kata kunci : POC sampah pasar, bibit Anggrek Dendrobium

**THE EFFECT OF LIQUID ORGANIC FERTILIZER CONCENTRATION MARKET
WASTE ON THE GROWTH OF DENDROBIUM ORCHID**

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ABSTRACT

This study aims to determine the growth response of Dendrobium orchid by applying liquid organic fertilizer from market waste and to find out the best concentration of market waste liquid organic fertilizer for the growth of Dendrobium orchids. Benefits of Research, Providing knowledge information to readers regarding the benefits of market waste as liquid organic fertilizer (POC) on the growth of Dendrobium Orchids. The research dendrobium orchid plants were arranged at the experimental site using a completely randomized design (CRD), with a single treatment factor. The factor in question is the POC dose with 5 treatment levels, namely: P0: Without fertilization (only water is used). P1 : Dekastar Fertilizer 5g/pot P2 : Treatment 15 ml POC/ liter of water P3 : Treatment 25 ml POC/ liter of water P4 : Treatment of 35 ml POC/ liter of water Each treatment consists of 3 replicates so 5 x 3 15 units. Each treatment unit consisted of 5 plants, so that the total plant was 15 x 5 75 plants. Based on the results of the research on the effect of dosages of Market Waste Liquid Organic Fertilizer on the growth of Dendrobium Orchid plants, it gave significantly different results on leaf length, and gave no significantly different results on plant height, number of leaves, stem diameter, root length, number of roots, number of tillers, and weight of biomass. Addition. Market Garbage POC is able to increase the growth of Dendrobium Orchid plants. POC treatment of market waste with a dose of 1.5 ml gave the best effect on growth and yield.

Keywords: POC market waste, Dendrobium orchid