

**APLIKASI PUPUK DAUN DAN EMULSI IKAN TERHADAP
PERTUMBUHAN VEGETATIF BIBIT ANGGREK *Dendrobium nobile* Lindl.
DARI POT KELOMPOK KE POT TUNGGAL**

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ABSTRAK

Anggrek dalam pertumbuhannya membutuhkan banyak macam unsur hara. Salah satu usaha meningkatkan pertumbuhan adalah dengan pemupukan melalui daun dan penambahan zat pengatur tumbuh. Penelitian bertujuan untuk mengetahui interaksi antara pupuk daun dan emulsi ikan terhadap pertumbuhan bibit tanaman anggrek *Dendrobium*, menentukan konsentrasi pemberian pupuk daun dan emulsi ikan yang baik untuk pertumbuhan bibit tanaman anggrek *Dendrobium*. Penelitian dilaksanakan di Kebun Anggrek Titi Orchid bulan Agustus sampai November 2019. Penelitian merupakan percobaan lapangan dengan Rancangan *Split Plot*. Faktor Pertama sebagai *main plot* konsentrasi pupuk daun terdiri atas 3 aras yaitu 1 g/L, 2 g/L, dan 3 g/L. Faktor kedua sebagai *sub plot* konsentrasi emulsi ikan terdiri atas 3 aras yaitu 1 ml/L, 2 ml/L, dan 3 ml/L. Setiap kombinasi perlakuan diulang 3 kali. Data dianalisis keragamannya menggunakan sidik ragam (Anova) taraf 5%, Uji lanjut dengan Uji Jarak Berganda Duncan (UJBD) taraf 5%. Hasil penelitian menunjukkan terdapat interaksi pada persentase hidup yaitu kombinasi pupuk daun 1 g/L dan emulsi ikan 1 ml/L, pada penambahan jumlah daun dan lebar daun yaitu kombinasi pupuk 1 g/L dan emulsi ikan 2 ml/L. Perlakuan pupuk daun 1 g/L menunjukkan pertumbuhan yang lebih baik pada bobot kering tanaman dan bobot kering akar. Perlakuan emulsi ikan 2 ml/L menunjukkan pertumbuhan yang lebih baik pada tinggi tanaman umur 67 hst dan 95 hst.

Kata kunci : anggrek, pupuk daun, emulsi ikan, pot tunggal

**APPLICATION OF LEAVES FERTILIZER AND FISH EMULSION
ON GROWTH VEGETATIVE *Dendrobium nobile* Lindl. ORCHID SEEDS
FROM GROUP POT TO SINGLE POT**

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ABSTRACT

Orchid plants in their growth and development require many kinds of nutrients. One effort to increase growth is by fertilizing through leaves and adding growth regulators. The study aims to determine the interaction between leaf fertilizer and fish emulsion on the growth of *Dendrobium* orchid plant seeds, determine the concentration of leaf fertilizer and fish emulsion that is good for the growth of *Dendrobium* orchid plant seeds. The study was conducted at the Titi Orchid Orchard Garden from August to November 2019. The research was a field trial with a Split Plot Design. The first factor as the main plot of leaf fertilizer concentration consists of 3 levels, namely 1 g/L, 2 g/L, and 3 g/L. The second factor as a subplot of the fish emulsion concentration consisted of 3 levels, namely 1 ml/L, 2 ml/L, and 3 ml/L. Each treatment combination was repeated 3 times. Data were analyzed for diversity using variance (Anova) level of 5%, further tests with Duncan's Multiple Range Test (UJBD) level of 5%. The results showed an interaction between life percentage and leaf width. The treatment of leaf fertilizer with a concentration of 1 g/L and fish emulsion with a concentration of 2 ml/L showed better growth in the number of leaves, plant dry weight, shoot dry weight, root dry weight, and leaf width.

Keywords: orchids, leaf fertilizer, fish emulsion, single pot