

ABSTRAK

Cyntya L. Situmeang, NIM 4213220039 (2026). Pengaruh Jenis Media Tanam dan Pupuk Growmore terhadap Pembungaan Anggrek *Dendrobium* Genting Royal.

Anggrek merupakan tanaman hortikultura yang terkenal karena keindahan dan keunikan bunganya. Penelitian ini bertujuan untuk mengetahui jenis media tanam dan dosis pupuk growmore pada pembungaan anggrek *Dendrobium* Genting Royal. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) Faktorial yang terdiri dari 2 faktor dan 3 ulangan, faktor pertama adalah faktor (M) media tumbuh yang terdiri dari 3 taraf yaitu: M1 (akar kadaka), M2 Pakis + Arang, M3 Pakis + Serabut kelapa dan faktor kedua adalah dosis pupuk growmore yang terdiri dari 4 taraf P0 (0 g/L), P1 (1 g/L), P2 (2 g/L), P3 (3 g/L). Data yang diperoleh dianalisis menggunakan ANOVA, dan pada perlakuan berbeda dilakukan uji lanjut DMRT. Hasil penelitian menunjukkan bahwa media akar kadaka menghasilkan jumlah kuncup dan bunga mekar terbanyak, sementara media pakis + arang mempercepat inisiasi bunga. Dosis pupuk 1 g/L memberikan hasil pembungaan paling optimal, sedangkan dosis 3 g/L bersifat toksik dan menyebabkan kegagalan bunga mekar. Terdapat interaksi nyata antara kedua faktor, di mana kombinasi akar kadaka dan 1 g/L growmore (M1P1) memberikan hasil pembungaan terbaik pada parameter jumlah kuncup dan jumlah bunga mekar.

Kata kunci: *Dendrobium* Genting Royal, Media Tanam, Growmore, Pembungaan



ABSTRACT

Cyntya L. Situmeang, Student ID 4213220039 (2026). The Effect of Planting Media Type and Growmore Fertilizer on the Flowering of *Dendrobium* Genting Royal Orchids.

Orchids are horticultural plants known for the beauty and uniqueness of their flowers. This study aimed to determine the type of growing medium and the dosage of Growmore fertilizer that affected the flowering of *Dendrobium* Genting Royal orchids. This study used a completely randomized factorial design consisting of two factors with three replicates. The first factor was the growing medium (M), which consisted of three levels: M1 (kadaka roots), M2 (fern + charcoal), and M3 (fern + coconut fiber). The second factor was the dosage of Growmore fertilizer, which consisted of four levels: P0 (0 g/L), P1 (1 g/L), P2 (2 g/L), and P3 (3 g/L). The data obtained were analyzed using ANOVA, and a DMRT follow-up test was conducted to identify significant differences among treatments. The results showed that kadaka root medium produced the highest number of buds and blooming flowers, while fern + charcoal medium accelerated flower initiation. A fertilizer dose of 1 g/L produced the most optimal flowering results, whereas a dose of 3 g/L was toxic and caused flower failure. A significant interaction was observed between the two factors, in which the combination of kadaka root medium and 1 g/L Growmore (M1P1) produced the best flowering performance in terms of the number of buds and blooming flowers..

Keywords: *Dendrobium* Genting Royal, Planting Medium, Growmore, Flowering

