Pengaruh Kombinasi Media Tanam dan Lama Perendaman Fungisida terhadap Pertumbuhan Anggrek Bulan (*Phalaenopsis* sp.) Pada Tahap Aklimatisasi. *The Effect of Combination of Growing Media and Fungicide Soaking Time on the Growth of Moon Orchid (Phalaenopsis sp.) in the Acclimatization Stage*. Supervised by Netty Ermawati, SP., Ph.D.

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ABSTRACT

Acclimatization is a critical stage in the propagation of plants resulting from tissue culture because at this stage plants must be able to develop and form strong tissues in order to adapt to new environments. This study aimed to determine the interaction between the combination of planting media and fungicide soaking on the growth of the moon orchid (*Phalaenopsis* sp.) acclimatization stage. The research was conducted in the Green House of Seed Technology. Polytechnic Jember from September to December 2022. The method used was a factorial completely randomized design (CRD) repeated thrice. The first factor is the combination of planting media consisting of 100% white moss (A0), 50% white moss + 50% fern (A1), 50% white moss + 50% wood charcoal, 50% white moss + 25% fern + 25% wood charcoal. the second factor is vitamin B1 (1 ml/l.). The second factor is fungicide soaking which consists of no soaking (F0), 6 minutes (F1), and 10 minutes (F2). The results showed that the treatment of a combination of planting media of 50% white moss + 25% fern + 25% wood charcoal has a very significantly different effect on the increase in plant height and leaf length, while the fungicide soaking time had no significantly different effect on all observation parameters. These results indicate that the planting medium plays an important role in the growth of orchids, sterilization of explants at the acclimatization stage only needs to be done if the source of the contaminants is in the planting material.

Key words : *Fungicide, Phalaenopsis, Planting Media*