

# **GROWTH OF DENDROBIUM ORCHIDS (*Larat agrihorti*) WITH THE ADDITION OF *Acaulospora tuberculata* MYCORRHIZAE IN VARIOUS PLANTING MEDIA**

By: Chamellia

Supervised by: Heti Herastuti and Endah Budi Irawati

## **ABSTRACT**

Orchids are one of the ornamental plants that are popular with many people. Efforts to increase the yield of orchid plants in the nursery phase can be done by providing mycorrhiza and suitable planting media. This research aims to examine the interaction between mycorrhiza and planting media on the growth of orchids. This research was carried out at the Experimental Garden of the Faculty of Agriculture, UPN "Veteran" Yogyakarta. The experimental design used was a 2-factor Completely Randomized Design (CRD). The first factor is mycorrhiza which consists of 3 levels, namely, no mycorrhiza, mycorrhiza 10 g, and mycorrhiza 20 g. The second factor is the planting medium which consists of 3 levels, namely, fern planting medium, wood charcoal and coconut fiber. The results showed that there was no interaction between the two treatments. The 10 g and 20 g mycorrhizal treatments gave the best results for orchid in the all parameters. The coconut fiber planting media provides the best orchid growth results in the parameters of plant height, number of leaves, leaf length, leaf width, number of roots and fresh weight. Fern planting media provides the best orchid growth results in the parameters of plant height, number of leaves, stem diameter, number of roots, and fresh weight. Wood charcoal planting media provides the best orchid growth results root length parameters.

**Keywords:** Dendrobium orchid, mycorrhiza, planting media.