GROWTH OF *Dendrobium* sp. ORCHIDS ON VARIOUS CONCENTRATION LIQUID ORGANIC FERTILIZER AND TYPES PLANTING MEDIA

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ABSTRACT

Dendrobium sp. orchids is a popular ornamental plant because it has many features. One effort to improve orchid growth by supplying liquid organic fertilizer and planting media. The purpose of this study was to examine the interaction between liquid organic fertilizer and planting media, determine the concentration liquid organic fertilizer and right planting media for the growth of *Dendrobium* sp. orchids. The study was a field experiment using Split Plot Design. Main plot is concentration liquid organic fertilizer 4 ml/L, 5 ml/L, and 6 ml/L. Sub plot is types of planting media, namely kadaka root, white moss, and coconut fiber. Data were analyzed using ANOVA at 5% level and tested using DMRT at 5% level. There was an interaction between concentration liquid organic fertilizer and types of planting media on plant height at 5 and 10 weeks after planting. The better treatment combination is the liquid organic fertilizer 5 ml/L with kadaka root, white moss, and coconut fiber. Liquid organic fertilizer 5 ml/L gave the best results in plant height at 15 weeks after planting, number of roots, and longest root length. Kadaka root gave the best results in number of shoots.

Keywords: *Dendrobium* sp. orchids, liquid organic fertilizer, planting media