ABSTRACT

EFFECT OF LEAF FERTILIZER AND BENZILADENIN (BA) ON GROWTH AND FLOWERING ORCHID *DENDROBIUM*

By

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Dendrobium is a genus of orchids are much in demand for its beautiful flowers and species diversity. Orchid production is achieved with good cultivation, one with the use of fertilizers and plant growth regulators (PGR) to obtain orchid growth and flowering of good. This study aims to determine (1) the type of fertilizer Rosasol which produces the best response to the growth and flowering orchid *Dendrobium*, (2) the effect of giving the BA on the growth and flowering orchid *Dendrobium,* (3) the presence or absence of interaction between foliar fertilizer delivery Rosasol and BA in affects growth and flowering of *Dendrobium* orchids.
The research was conducted in the greenhouse of the Faculty of Agriculture, University of Lampung months from February to October 2011. The experiment was conducted with complete randomized design with the first factor is the type of leaf fertilizer, which is Rosasol-N (h1), Rosasol-P (h2) and the second factor, Benziladenin (BA), ie without BA (b0) and 100 mg / l BA (b2).

The results showed that treatment of leaf fertilizer-P or *alternate* Rosasol N- RosasolP produces a better response than Rosasol-N on growth and flowering of *Dendrobium* orchids indicated by the addition of high, increasing the number of segments, length of panicle, and number of flowers, concentration of 100 mg / l BA gave the best response *Dendrobium* orchids indicated by the addition of variable height, and there is interaction between the type of fertilizer Rosasol leaf-P and without BA in the growth and flowering of *Dendrobium* orchids shown in the addition of a variable number of segments.

Key words: *Dendrobium,* Benziladenin, flowering