

**STAGE II ACCLIMATIZATION USING LIQUID ORGANIC  
FERTILIZER AND MYCORRIZA ON THE GROWTH OF  
PHALAENOPSIS (*Phalaenopsis amabilis* L.) SEEDLINGS IN A SINGLE  
POT**

By : Dwi Prasetyani  
Guided : Ari Wijayani

**ABSTRACT**

Stage II acclimatization involves moving from a group pot to a single pot. One way to support the success of phase II acclimatization of moon orchids is by providing liquid organic fertilizer and mycorrhizal biological fertilizer with the right concentration and dose. This research aims to examine the interaction between administering various concentrations of liquid organic fertilizer and doses of mycorrhizal biofertilizer and to determine the appropriate concentration of liquid organic fertilizer and dose of mycorrhizal biofertilizer in the acclimatization phase II of the moon orchid. The research used a 2 factor Split Plot design. Main Plot is the concentration of liquid organic fertilizer which consists of 3 levels, namely 2 ml/L, 4 ml/L and 6 ml/L. The sub plot is the dose of mycorrhizal biofertilizer with 3 levels, namely 5 g/plant, 10 g/plant, and 15 g/plant. The results showed that there was an interaction between the two treatments on the number of leaves aged 70 HST with the best combination of POC 4 ml/L and 10 g/plant. A good POC concentration for seedling growth is 4 ml/L at a number of leaves aged 42 DAP, leaf width 70 DAP, leaf length 70 DAP, number of roots 70 DAP, and plant fresh weight 70 DAP. The good dose of mycorrhiza for seedling growth is 10 g/plant at leaf length at 70 HST, number of roots and plant fresh weight at 70 HST

**Keywords :** Acclimatization, Phalaenopsis, Liquid Organic Fertilizer, Mycorrhizal Biofertilizer