

STUDY ON INVITRO PROPAGATION OF SLIPPER ORCHID (*PAPHIOPEDILUM CONCOLOR*)

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Summary

Study on invitro propagation of Slipper Orchid (*Paphiopedilum concolor*) has been conducted in the MS culture medium. PH =5,8, culture medium was decontamination in autoclave at 121⁰C in 18 mins, culture room were keeping at 25⁰C, 65% for humidity, and 2000 lux for light intensive, time of illumination was at 16 hrs/day. Result showed that: about 67.7% of cultured samples regenerated shoot. At the multiple buds regeneration stage, MS medium added with BA 2mg/l and TDZ 1,0mg/l produced most number of buds as 2.9 buds/cultured shoot. At the root formation stage, MS added with NAA (0.5mg/l) and charcoal 0.5g/l obtained 76.7% cultured samples that have root formation, most suitable culture soil for nursery plant was as seaweed + rice husk (2:1 in volume).

Keywords: Slipper Orchid (*Paphiopedilum concolor*), Culture medium, invitro, growth regulators.