

Micro propagation and optimization of protocol for medicinal important plant (*Clerodendrum viscosum*)

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SUMMARY

Plants of *Clerodendrum viscosum* Vent. (Verbanaceae) were regenerated by taking nodal segments containing apical and axillary buds as explants and isolated from field-grown mature plants. The apical and axillary buds were inoculated on MS media with 11 different concentration of BAP and adenine sulphate either alone BAP or combination of BAP and adenine sulphate. Best establishment was found in MS media within 5 – 7 days of inoculation. On subculturing well established explants on the same respective media treatments multiple shoot induction was highest in MS media supplemented with BAP (4mg/l). Five treatments of MS media and varying concentration of 2, 4-D for callus induction were taken. Callus induction was observed best in MS media supplemented with 2, 4-D (4mg/l) in 23-25 days. This protocol can be used to generate cost-effective protocol for large-scale *in vitro* multiplication of *Clerodendrum viscosum*.

Key Words : *Clerodendrum viscosum*, Medicinal plant, Micro propagation, Tissue culture

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