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EFFECTS OF BAP AND KINETIN ON IN VITRO PROPAGATION OF VANILLA PLANIFOLIA

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Two kinds of explants excised from *in vitro* grown plantlets, shoot apex and nodal segment, were cultured onto modified solid MS media supplemented with 0.5, 1, 2 mg/l BAP, 0.5,1, 2, 4 mg/l kinetin, absence of any plant growth regulators served as the control, for 8 weeks. It was found that 1 and 2 mg/l BAP induced 1.7 new shootlets/shoot apex explants, while 2.17 and 2.33 new shootlets/ nodal explants produced in both treatments, respectively. There were only 0.50-1.33 new shootlets/ shoot apex explants, and 1.00-1.30 new shoots/ nodal explants produced in other treatments. Height of plantlets, sizes of leaves, and numbers and length of roots were also recorded. Plantlets were successfully acclimatized, having 95% survival rate in the greenhouse.

Keywords: Vanilla planifolia, in vitro, BAP, kinetin