

Rapid *in-vitro* Propagation of Tomato (*Solanum lycopersicum*) via Cotyledonary Leaf Explants

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ABSTRACT

Tomato (*Solanum lycopersicum* L.) cv. PKM-1 cotyledonary leaf explants were cultured on MS basal medium supplemented with various concentrations of BAP, Kinetin, Zeatin, IAA and IBA. Among the various plant growth regulators combinations tried the best shoot regeneration was obtained when MS medium was supplemented with BAP 1.5 mg/L + Kinetin 1.0 mg/L and the best root regeneration was obtained when MS medium was supplemented with Kinetin 1.0 mg/L. Higher plantlet survival (86%) was obtained in soilrite mixture and 9.6 days has been taken for acclimatization.

Key words : BAP, IAA, Tomato, *in-vitro* cultures, Kinetin and Zeatin.