

Micropropagation of gladiolus cv. 'Peach Blossom' through enhanced release axillary buds

I. Priyakumari, V.L. Sheela

Abstract

Gladiolus grandiflorus L. cv. 'Peach Blossom' was micropropagated through enhanced release of axillary buds. The cultures were established using intact cormels in Murashige and Skoog (MS) medium. Shoot proliferation was maximum in MS medium fortified with BA 4 mg L⁻¹+NAA 0.5 mg L⁻¹. Low concentrations of BA (1 or 2 mg L⁻¹) were, however, suitable for further shoot multiplication. IBA (2 mg L⁻¹) produced earliest rooting (7 days) and longest roots (5 cm). In vitro raised plantlets were successfully planted in sterile media consisting of sand: soil (2:1) in plastic pots.

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