

Identification of the suitable hardening protocol and hardening medium in micropropagation of gerbera (*Gerbera jamesonii* Bolus)

Vivek Kumar Singh¹, V.M. Prasad¹, Supriya Kumari², Preeti Rajoria³ and Pragati Misra³

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ABSTRACT : An experiment was employed to identify the suitable rooting hormone and a potential hardening medium for gerbera micropropagation techniques. IBA (Indole Butyric Acid) and GA₃ (Gibberellic Acid) are taken for the study of rooting and Sand, Cocopeat, Vermicompost and Vermiculite selected alone or in combinations for the study of hardening in gerbera. Different parameters on root induction were taken similarly morphological and biochemical parameters were studied in harden plants of gerbera. On the basis of different parameters, it is concluded that higher rate of IBA (3 ppm and 4 ppm) and lower concentration of GA₃ was found good but overall performance of IBA was best. In the hardening process among the different growing medium were tested. The combined use of Sand, Cocopeat, vermicompost and vermiculite gave excellent result but alone they were failed to give desirable result.

Key Words : Gerbera, micropropagation, rooting, hardening and medium.