

Regeneration of multiple shoots from petiole callus of *Viola serpens* Wall

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ABSTRACT

Experiments were conducted to develop methodology for in vitro propagation and rapid multiplication of *Viola serpens* Wall. using petiole explant. The MS medium supplemented with 2, 4-D (6.78 mM) was found most suitable for callus induction in petiole explant. The best growth response and higher rate of shoot regeneration from petiole callus was observed on MS medium containing BAP (11.10 mM) as the average number of shoots could be increased to 36.4 on fourth successive subculturing. Higher rooting response with larger number of roots were observed in shoots inoculated on the half-strength MS medium supplemented with IBA (19.68 mM).

KEYWORDS

Callus . growth regulators . multiple shoots . petiole . *Viola serpens*

REFERENCES

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