

RESEARCH ON PROPAGATION OF *Sarcandra glabra* BY TISSUE CULTURE

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Summary

Sarcandra glabra has a great effect in treating cancer and some other diseases such as pneumonia, appendicitis, diarrhea, rheumatism ... However, due to slash and burn practice, forest fires, and forest exploitation inconsequentially, otherwise the distribution area of the species has been narrowed and their reserves have been seriously reduced. Therefore, we need to have effective conservation methodologies. Research on propagation *Sarcandra glabra* by tissue culture, showed that the shoots expland were disinfested with 0.1% HgCl₂ for 3.5 minutes (the portion of clean sprouted explants is 25.6%). Seeds were disinfested with NaClO 5% for 30 minutes (germination rate 88.9% after 8 weeks). *Medium for shoot explants regeneration* were MS supplemented with 1.5 mg l⁻¹ BAP + 0.2 mg l⁻¹ Kinetin + 0.2 mg l⁻¹ NAA (rate of *regenerated shoot* is 91.1%, with 11 shoots per plantlet, 0.78 cm of height). *Medium for shoot explants growth* were MS supplemented with MS + 0.3mg l⁻¹ BAP + 0.2mg l⁻¹ Kinetin + 0.2mg l⁻¹ NAA (3.03 cm of height, number of shoot hight over 2cm is 3.29 shoot per expland, good quality shoots). *The best medium for shoot rooting* is MS with supplement of 0.7 mg l⁻¹ IBA (rate of rooted shoots was 90%, with 4.3 root per shoot, length of root was 3.2 cm, roots were appeared after 18 days, good quality roots). Plantnets grewed the best in mix soil and Organic vegetable growing land of Thuy Cam Company Limited the ratio 2:2 (with survival rate of 94.4% and the height has growed by 1.99 cm per month).

Keywords: BAP, IBA, *Sarcandra glabra*, tissue culture, propagation.