

## **STUDY ON IN VITRO MICROPROPAGATION OF *Bletilla striata* (Thunb.) Reichb.f.**

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### **Summary**

*Bletilla striata* is a precious medicinal plant that has many therapeutic effects, especially in the treatment of diseases related to bleeding and stomach diseases. The research has identified some basic parameters in the propagation process of this orchid via tissue culture method. The samples were sterilized by using HgCl<sub>2</sub> 0.1% combined in 5 minutes with sodium dichloroisocyanurate (NaDCC) in 5 minutes. The living and clean rate is 52.38%. The medium MS + 30 g/l sugar + 4.5 g/l agar + 1.5 mg/l BA at pH 5.8 was the best medium for bud induction, have got 1.63 buds/sample after 6 weeks. The best medium for rapid micropropagation was MS + 30 g/l sugar + 4.5 g/l agar + 0.1 mg/l TDZ, pH 5.8. The multiplication rate is 2.86 buds /sample, the plants are healthy and green. The rooting medium was MS +30g/l sugar + 4.5g/l agar +0.5 g/l actived charcoal. The *in vitro* plants had adapted better to the nursery using coconut peat substrate.

**Từ khóa:** *Bletilla striata* (Thunb.) Reichb. f., in vitro culture, micropropagation.