IN VITRO MICROPRORAGATION OF WILD

*Phaphiopedilum purpuratum*

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**Summary**

*Phaphiopedilum purpuratum* is a precious native orchid species which has been threatened in extinction. In order to conserve and develop genetic resources serving the human spirit and life, as well as maintaining the ecological balance of nature, *in vitro* multiplication of this orchid was conducted. The results indicated that the good medium for seed sowing is \( \frac{1}{2} \text{RE} + 10 \text{ g/l sugar} + 0.5 \text{ g/l active charcoal} + 5.0 \text{ g/l aga} + 100 \text{ ml coconut milk} \). The best medium for shoot multiplication is \( \frac{1}{2} \text{RE} + 2 \text{ mg/l } \alpha \text{-NAA} + 0.3 \text{ mg/l aga} + 10 \text{ g/l sugar} + 0.5 \text{ g/l active charcoal} + 5.0 \text{ g/l aga} + 100 \text{ ml coconut milk} \). The addition of some organic mixture as bananas and potatoes has no effect in multiplication of this plant. The optimal medium for plant growth, development and rooted plant is \( \frac{1}{2} \text{RE} + 0.5 \text{ mg/l } \alpha \text{-NAA} + 5 \text{ g/l sugar} + 0.5 \text{ g/l active charcoal} + 5.0 \text{ g/l aga} + 100 \text{ ml coconut milk} \).

**Keywords:** Extinction, maintain, multiplication, orchid seed, *Phaphiopedilum purpuratum.*