

**STUDY ON STERILIZED REGULATION AND
EFFECT OF BENZYL ADENIN (BA) ON SHOOT
REGENERATION OF *Syzygium samarangense* (BLUME)
MERRILL & PERRY *IN VITRO***

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Summary

For the first time in Vietnam, “Man Hoa An” (*Syzygium samarangense* (Blume) Merrill & Perry), a woody fruit tree, was studied to multiply buds *in vitro*. The sterile surface of woody plants is often difficult. On the other hand, physiological state or changes in growth regulators also greatly affect shoot formation *in vitro*. Therefore, this study focused on investigating the effectiveness of javel disinfection (NaOCl) and mercuric chloride (HgCl₂) at different concentrations and treatment times for cultures of 3-week-old shoots of plum trees. Hoa An surveyed the cutting position suitable for multiplication of shoots and initially investigated the effect of plant growth regulators (BA) on the multiplication of buds of Hoa An plum. The results showed that the treatment of the culture with 0.2% HgCl₂ for 20 minutes gave the highest sterilization effect. The cut in the second position (from the top) is suitable for multiplying buds. Transplant samples of Hoa An plum buds cultured on MS medium supplemented with BA 2 mg/l for the highest rate of shoot compared with BA at different concentrations or compared to the control.

Keywords: *Benzyl adenin, formation of shoot, in vitro, Syzygium samarangense.*