

# **THE RESEARCH RESULT OF GROWTH CHEMICAL SUBSTANCES INFLUENCE ON CLONE AH1 BY *IN VITRO* CULTURE**

**Tran Huu Bien, Do Thi Ngoc Ha, Do Duc Tri**

## **Summary**

There are over 200 germplants of *Acacia* hybrid, that are different of biology characteristics; so that the propagation requires a methodology for one germplant. The AH1 clone is the National germplant, it's fast growth with 25 - 40 m<sup>3</sup>/ha/year, suitable for ecoclimates and forestry restructuring. The research *in vitro* culture find out growth chemical substances, that belong cytokinin, auxin group when combine with MS solution (improved), influence on shoot, root quality and quantity of AH1 clone. The research results showed 1.5 mg/l BA solution was the best for shooting quantity, shooting index (13.1). After finding the BA solution, the experiment was improved IBA in 0.1 mg/l, the shooting quantity and shooting index were highest in this experiment. When MS was added NAA 1.5 mg/l, the rooting quantity, rooting length and rooting index of AH1 clone were suitable for development in productivity.

Keywords: *Acacia hybrid, Growth chemical substance, in vitro.*