

# EVALUATE GENETIC DIVERSITY OF 2<sup>nd</sup> GENERATION *Acacia mangium* SEED ORCHARD

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## Summary

The genetic diversity of 2<sup>nd</sup> generation *Acacia mangium* seed orchard at Bau Bang (Binh Duong) was evaluated by 10 microsatellite markers (AH02, AH16, AH54, Am030, Am041, Am136, Am387, Am429, Am436, Am465). These microsatellite markers have an average heterozygosity ( $N_a = 4.87$  allele per locus). The seed orchard has high level of genetic diversity and equal between provenances. The observed heterozygosity is 0.64 and expected heterozygosity is 0.61 with the outcrossing rate is rather high (90.5%). Seeds produced from this 2<sup>nd</sup> generation *Acacia mangium* seed orchard have high genetic quality and ensure to adapt with changing of environment and transmit good genetic characters to progenies.

**Keywords:** *Acacia mangium*, genetic diversity, microsatellite markers, seed orchards.