CHAPTER V

CONCLUSION

1. Low genetic diversity level of *A. cerana* originating from 5 different geographic samples were observed from the ITS sequences. Only 4 point mutations were found among 21 investigated sequences. The GC content of amplified ITS region in *A. cerana* was 52.1%
2. Using the information on the point mutation, the origin of *A. cerana* from the Northern group (North, North-East and Central), South and Samui could be unambiguously traced.
3. Three polymorphic microsatellite loci; A28, A107 and A113, exhibited 24, 10 and 3 alleles per locus respectively.
4. The average heterozygosity of Thai *A. cerana* estimated from three microsatellite loci was 0.18-0.46 indicating a low genetic variation levels in this taxon.
5. Genetic population differentiation existed in this species. The investigated samples from five geographic different samples were allocated to 3 different stocks; 1)North, Central and North-East 2) South and 3) The Samui Island.