CHAPTER 6

CONCLUSIONS

Morphology of 4 species of *Habenaria* and 2 species of *Pecteilis* showed some similarity as well as difference. According to leaf morphology, they could be divided into two groups, ground covered leaves, thick and rounded, whereas others had spiral leaf arrangement, thin and acute tip. As of flower colors, they could be separated into two groups, white and colored.

The suitable buffer for extracting DNAs of *Habenaria* and *Pecteilis* was SDS with PVPP. Use of this buffer was easier for conducting following steps.

RAPD technique provided information on the relationship of species belongs to *Habenaria* and *Pecteilis*. By screening 20 each of OPA, OPC, OPD, OPF, OPG, OPN and OPU primers, it was found that 15 primers could distinguish orchid plants in this study into two groups corresponding to flower colors, white and colored.

Specific markers $OPA10_{680}$ and $OPA10_{362}$ were indicated in a group of *H. rhodocheila* and *H. xanthocheila* and a group of *H. lindleyana*, *H. myritricha* and 2 species of *Pecteilis*, respectively.