

## **Chapter Six**

### **Conclusion**

## 6.0 Conclusion

- Optimization was required for every primer pair used.
- Higher percentage of polyacrylamide gel would give a better separation compare to a lower percentage.
- Electrophoresis condition should also be optimized in each study case.
- To avoid the breaking of glasses plates, covering the whole surface of the plate during the running period was necessary.
- All 3 alleles detected in each primer running set, conformed to the equilibrium distribution of genotype (Hardy-Weinberg Equilibrium).
- Two of three primer sets produce high levels ( $\geq 50\%$ ) of heterozygosity (AGMI 10/103 & AGMI 9/93) where the level of heterozygosity for AGMI 105/108 appear to be very low. this shows that this primer was not the desirable detector for examined population.
- Differentiation between some varieties was possible by using the three primers studied while several alleles were common to many of samples.
- It was not possible to come to any conclusion on the relatedness of the sample tested due to the small number of alleles generated.
- More primers need to be used and analyzed before any phylogenetic relationships can be inferred.