

VI. SUMMARY

Two multiplex loci (CTT & FFv triplex) provided great value of combined P.D. and P.E. in the Thai population suitable for application in relationship testing and forensic analysis. In this study, the genetic database of 6 STR loci in the Thai population were established : power of discrimination (P.D.), power of exclusion (P.E.) and also allelic frequencies. The high polymorphic content of these loci, the data to Hardy-Weinberg expectations, the available genetic database and the technical simplicity of the method may enable forensic scientists to use the multiplex loci analysis for general applications.