

DNA Genotyping of Kelampayan (*Neolamarckia cadamba*) Progenies (Sample Set I) Using Inter Simple Sequence Repeat (ISSR) Marker



Bachelor Thesis from the year 2012 in the subject Biology - Micro- and Molecular Biology, grade: A-, , course: Molecular Biology, language: English, abstract: *Neolamarckia cadamba*, commonly known as Kelampayan is a fast-growing tropical timber species. It has many commercial applications such as production of plywood, pulp and paper, boxes and crates, furniture and light construction components. Molecular characterization of *N.cadamba* is needed so that the qualities of its progenies are maintained. In this project, DNA genotyping of Kelampayan were carried out to determine the genetic relatedness of Kelampayan progenies. One selected ISSR primers: (AG)₉C was used to assess the genetic diversity and genetic relatedness of 150 *N.cadamba* progenies (half-sib) from Matang 05, Lawas 24 and Lawas 29. This primer had successfully amplified 17 loci ranging between 389 bp to 1,047 bp, by which Lawas 29 was the most polymorphic (100% polymorphic). The Shannons diversity index for Lawas 29 was the highest (0.4453) compared to Matang 05 (0.2064) and Lawas 24 (0.1731) populations while the G_{st} value for the populations was 2.5837. The gene diversity within the population (H_s) was 0.1783, whereas the total gene diversity (H_t) between the populations was 0.2128.

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