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SEX DETERMINANT OF HUMAN HAIR WITH DNA ANALYSIS METHOD USING POLYMERASE CHAIN REACTION (PCR)

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Abstract

The identification of victims and suspects in criminal cases is increasing the quantity or quality. Environmental factors that affect DNA degradation that can be fast or slow, depending on factors that influence the occurrence and timing of exposure. DNA damage is divided into two types: from within, for example due to reactive oxygen species (ROS), and from outside, such as temperature and humidity. Evidence at the scene plays an important role in identification. Hair can be used in the determination of race, sex, blood type. But until now the examination through the hair as forensic identification of alternatives, not much is known. This study aims to find out the examination of hair as an alternative material with the identification of forensic DNA profiling. The results of this study, levels of DNA sample that is 20 and 35 ul/ml. On the visualization of agarose electrophoresis using polyacrylamide gel composit be determined whether the bands that appear 212 bp to 380 bp amelogenin X and Y for amelogenin, by drawing a line in the direction of the sample ribbon marker 100 bp. At sample number 1 there are two bands which is at 212 bp and 380 bp in the sample number 1 is the male sex (XY) while in sample number 2 was only one band at 212 bp so that the female gender (XX).

Keyword : Sex, determinant, Amelogenin, PCR,

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