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DNA Isolation From Sweat Stain in Clothes as Forensic Identification Material

DNA Isolation From Sweat Stain in Clothes as Forensic Identification Material

1. Ahmad Yudianto --> Human Genetic Study Group Airlangga University Tropical Disease Center (TDC)
2. Soekry Erfan Kusuma --> Human Genetic Study Group Airlangga University Tropical Disease Center (TDC)

Abstract

DNA profiling is an instrument to assist the investigation of either criminal or civil cases. It is also highly useful in forensic identification. Until recently, personal identification using sweat stain in clothes with DNA analysis method (DNA profiling) has not been commonly used in Indonesia. A study has been conducted on the sweat stain in clothes using DNA analysis for forensic identification material. Loci in this study were CSF1PO, THO1, TPOX, vWA and D17S5. From 10 samples used, only 6 met the typing requirement (level >20ng/ml and purity 1- 2). As a comparison, we used blood from volunteers. Except the locus D17S5 which was not examined due to the small amount of DNA remains produced from sweat stain, in electrophoresis visualization that presenting as bands, the four loci in sweat and blood stain were identical/consistent. In conclusion, sweat stain in clothes can be used as alternative material for forensic identification using molecular forensic examination.

Keyword : sweat, stain, in, clothes, STR, forensic, identification, ,

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