Media Folia Medica Indonesiana
Volume : 45 - No. 2 Terbit : 04-2009

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Effectiveness of Cigarette Butts as an Alternative Material for Forensic DNA Identification with Polymerase Chain Reaction (PCR) in Short Tandem Repeat (STR) Loci

Abstrak :

Until recently in Indonesia, personal identification through cigarette butts with the method of DNA analysis (DNA profiling) have not been used, then this research may provide answers on issues related to the effectiveness of the use of cigarette butts as a forensic identification. In the field of molecular forensic medicine, one of the very helping investigation examination is examination of the evidence (trace evidence) that exist in the body of the victim/perpetrator of crime and crime scene/crime scene (crime scene investigation), but the problem often encountered in cases such as crimes accompanied by efforts disappearance of evidence, for example by burning the victim so that victims can not be identified. This study has found that cigarette butts can be used as alternative materials in personal identification. Good cigarettes butts on cigarettes and cigarette filters consist of two parts, namely a pack of cigarettes / papers and filter / tobacco. Cigarette packages in the form of paper in direct contact with the lip or lip mucosa. Use THO1 loci, D17S5 and vWA loci given that the first locus is one developed by the Forensic Science Service, as well as loci has a probability of a match with the comparison: 50 million.

Keyword :

DNA isolation, cigarette butts, identification

Daftar Pustaka :

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