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ONLINE ISSN : 1348-2246 PRINT ISSN : 0910-6340

**Analytical Sciences** Vol. 26 (2010), No. 4 p.503

[PDF (480K)] [References]

## Genotyping of Polymorphisms in Alcohol and Aldehyde Dehydrogenase Genes by Direct Application of PCR-RFLP on Dried Blood without DNA Extraction

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(Received January 21, 2010) (Accepted February 26, 2010)

We have developed a simple, labor-saving, inexpensive, and rapid single nucleotide polymorphism (SNP) genotyping method that works directly on whole human blood. This single-tube genotyping method was used to successfully and reliably genotype *ADH1B* and *ALDH2* polymorphisms without DNA isolation using a 1.2-mm disc of dried blood and the KOD FX PCR enzyme kit. SNP genotyping was performed by a polymerase chain reaction–restriction fragment length polymorphism (PCR-RFLP) method. In addition to the labor and expense advantages, the possibility of sample contamination was considerably decreased, since the DNA extraction step was eliminated. In the post-genome era, a simple and inexpensive method for diagnostic analysis is in high demand, and this method will be very useful for genetic diagnoses in biological and medical laboratories.

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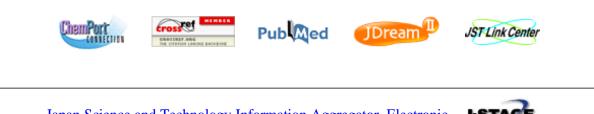
To cite this article:

Mariko HAYASHIDA, Kyoko IWAO-KOIZUMI, Shigenori MURATA, Akira YOKOYAMA and Kenji KINOSHITA, Anal. Sci., Vol. 26, p.503, (2010).

doi:10.2116/analsci.26.503

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