

ABSTRACT

Nucleic Acid Detection Method by Real-Time PCR

An object of the invention is to provide an optical detection method and a quantification method of a product obtained by amplifying a target nucleic acid contained in a paper piece of a blood spot in a filter paper obtained by blotting blood on a filter paper and then drying the blood using nucleic acid amplification reaction by real-time PCR and to further provide a kit used for the methods. The invention provides a method and a kit which can optically detect and quantify a target nucleic acid from a dried blood spot in a filter paper by real-time PCR without any complicated pretreatment, by adjusting the size of the punched piece of the dried blood spot in a filter paper or the whole blood amount contained in the punched piece, the amount of the PCR reaction reagent, or performing the PCR reaction in a PCR reaction tube closed with a cap.

[No figure]