

Technology: [Method of mutation detection in blood cell-free DNA using primer extension \(PE\) and PCR](#)

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The VA has a sole ownership interest

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Abstract: A method of detecting mutation in blood cell-free DNA, includes providing a serum sample, isolating DNA from the serum sample, amplifying the DNA by polymerase chain reaction (PCR), subjecting the PCR product to primer extension (PE), and separating the PE reaction product and identifying the mutation by gel electrophoresis. In order to improve accuracy and sensitivity, the PE reaction can be carried out by using a primer that blocks the extension of the wild or non-mutated sequence.