

Factor V (F5) Leiden (R506Q) Mutation by Real-Time PCR

Clinical Indication and Relevance

Please refer to “American College of Medical Genetics Consensus Statement on Factor V Leiden Mutation Testing”.

http://www.acmg.net/StaticContent/StaticPages/Factor_V.pdf

Methodology

DNA is isolated from the patient sample and the Factor V gene containing the Leiden mutation site is PCR-amplified and analyzed using an allelic discrimination assay employing primers and TaqMan probes. Results are reported as normal, heterozygous or homozygous for the factor V Leiden mutation.

Sensitivity

N/A

Turn-around Time

Five to ten working days

Sample Requirements

Collect

Peripheral blood (PB): 3-5 mL (1 mL minimum), in purple top (sodium EDTA) tube; yellow top (ACD) tube acceptable.

Transport

Ambient or 2-8°C (wet ice or cold packs). Do not freeze.

Stability

Ambient - 8 hours; refrigerated - 48 hours.

Unacceptable Samples

Serum or plasma; frozen peripheral blood; clotted blood; severely hemolyzed blood samples.

CPT Code(s)

81241: *F5* (coagulation Factor V) gene analysis, Leiden variant

G0452-26: Molecular pathology procedure; physician interpretation and report