Factor V Leiden DNA Test

The factor V Leiden mutation is the most common genetic risk factor for venous thrombosis, a serious health problem affecting approximately 1 in 1000 people and leading to 50,000 deaths annually in this country. This mutation is involved in 20-40% of venous thrombosis cases and is present in 5% of the general population. The Factor V Leiden DNA Test should be included in the evaluation of all patients with thrombosis or a family history of this condition. Venous thrombosis is multigenic, and up to a third of individuals affected with inherited thrombosis have two or more genetic defects. The Factor V Leiden mutation is also associated with multiple pregnancy loss and intrauterine fetal demise. Kimball Genetics provides the Factor V Leiden DNA Test separately, in combination with the Prothrombin (Factor II) DNA Test, or as part of panels including coagulation tests for other inherited hypercoagulability disorders.

Indications for Factor V Leiden DNA Testing:

- Venous thrombosis
- Pulmonary embolism
- Transient ischemic attack or premature stroke
- Peripheral vascular disease, particularly lower extremity occlusive disease
- Cerebral vein thrombosis
- Multiple spontaneous abortions
- History of a thrombotic event
- Family history of venous thrombosis
- Relative known to have the factor V Leiden
- Prior to major surgery, pregnancy, oral contraceptive use or estrogen therapy if there is a personal or family history of thrombosis
- Presence of another known genetic hypercoagulability in an individual with a history of thrombosis
- Previous finding of activated protein C resistance by laboratory analysis
- Multiple pregnancy loss and intrauterine fetal demise

Special Aspects of our Service:

- Rapid turnaround time
- Detailed reports with genetic interpretation, recommendations and education
- Genetic consultation by board-certified genetic counselors and geneticists

Factor V Leiden/Inherited Hypercoagulability Testing Services:

- **Factor V Leiden DNA Test**

  Specimen requirements: 5 ml whole blood in an EDTA tube (lavender top)

  Turnaround time: 1 business day

- **Combined Factor V Leiden/Prothrombin (Factor II) DNA Test**

  Specimen requirements: 5 ml whole blood in an EDTA tube (lavender top)

  Turnaround time: 1 business day

- **Inherited Hypercoagulability Panels**

  Panel A - *for patients not on Coumadin therapy*
  Factor V Leiden DNA Test, Prothrombin (Factor II) DNA Test, Antithrombin Activity, Protein C Activity, and Protein S Activity

  Panel B - *for patients on Coumadin therapy*
  Factor V Leiden DNA Test, Prothrombin (Factor II) DNA Test, Antithrombin Activity, Protein C Antigen, Protein S Antigen, Protein C/Factor IX Antigen Ratio, and Protein S Anitgen/Factor IX Antigen Ratio

  Specimen requirements: 5 ml blood in an EDTA tube (lavender top) *and* 3 ml frozen citrated plasma in 1 ml aliquots

  Turnaround time: 3-4 days (Panel A)
  4-6 days (Panel B)

  Note: Any of these tests may also be ordered individually.

Please call Kimball Genetics for more information.

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