





Pathology and Laboratory Medicine

# Orderable - FVL Turnaround Time: 4 weeks

## **Alternate Name(s):**

Factor V
Familial Thrombophilia
Prothrombin/Factor V Prothrombin



#### Laboratory:

Molecular Diagnostics Lab

### **Specimen:**



#### **Requisition:**

MOLECULAR DIAGNOSTICS REQUISITION



Ï

#### Method of Analysis:

Analysis of FV Leiden mutation at the 1601G locus utilizes an Agena iPLEX custom panel followed by SpectroCHIP® Array detection using the MassARRAY System (Agena) Blood samples <u>may</u> be maintained at room temperature or a frozen aliquot is also acceptable.

1 x 4 mL K<sub>2</sub> or K<sub>3</sub> EDTA Lavender top Vacutainer tube-may be a frozen aliquot

# (Agena)

Test Schedule:
As required,
Monday to Friday 08001600 hours

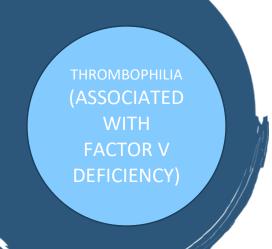
# **Reference Ranges:**

See report

## **Interpretive Comments:**

Resistance to activated protein C (APC) is a major cause of familial thrombophilia, and can be corrected by an anticoagulant activity expressed by purified factor V. It has been suggested that a point mutation in the gene coding for factor V is responsible for APC resistance (PMID:7909098, 8208267). This point mutation, (F5:c.1601G>A), occurring towards the 3' end of exon 10 of the factor V gene, is predicted to cause a missense mutation in the APC cleavage site, (F5:p.Arg534Gln) and confers an increase in the relative risk of a first episode of venous thrombosis of x7 for heterozygote carriers, x35 for heterozygote carriers taking oral contraceptive medication, and x80 for individuals homozygous for the Factor V Leiden mutation(PMID:11529700).

## **Storage and Shipment:**







Pathology and Laboratory Medicine

Must be received in testing laboratory within 5 days of collection, shipped at room temperature by courier/overnight delivery.