

Reporting Title: Factor V Leiden (R506Q) Mutation, B

Performing Location: Rochester

Ordering Guidance:

This assay will only detect the *F5* c.1601G>A; p.Arg534Gln (rs6025) variant associated with factor V Leiden thrombophilia. To detect other pathogenic alterations in the *F5* gene of a patient with a laboratory diagnosis of coagulation factor V deficiency, order F5NGS / *F5* Gene Next Generation Sequencing, Varies.

This assay will not will not detect alterations in individuals with activated protein C (APC)-resistance caused by mechanisms other than the *F5*:c.1601G>A, p.Arg534Gln variant. Coagulation-based activated protein C (APC)-resistance ratio (mixing with factor V-deficient plasma) is recommended as the initial screening assay for APC-resistance. Depending on the assay system, the APC-resistance ratio may be indeterminate for patients with a lupus anticoagulant or extremely high heparin levels. For more information, see APCRV / Activated Protein C Resistance V (APCRV), Plasma or APCRR / Activated Protein C Resistance V (APCRV), with Reflex to Factor V Leiden, Blood and Plasma.

Specimen Requirements:

**Patient Preparation:** A previous bone marrow transplant from an allogenic donor will interfere with testing. Call 800-533-1710 for instructions for testing patients who have received a bone marrow transplant.

**Container/Tube:**

**Preferred:** Lavender top (EDTA)

**Acceptable:** Yellow top (ACD solution B), light-blue top (sodium citrate)

**Specimen Volume:** 3 mL

**Collection Instructions:**

1. Invert several times to mix blood.
2. Send specimen in original tube. **Do not** aliquot.

Forms:

1. **New York Clients-Informed consent is required.** Document on the request form or electronic order that a copy is on file. The following documents are available in Special Instructions:  
[-Informed Consent for Genetic Testing](#) (T576)  
[-Informed Consent for Genetic Testing-Spanish](#) (T826)
2. [Coagulation Patient Information](#) (T675) in Special Instructions

Specimen Type	Temperature	Time	Special Container
Whole blood	Ambient (preferred)	14 days	
	Refrigerated	14 days	
	Frozen	14 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
21838	Factor V Leiden (R506Q) Mutation, B	Alphanumeric		21668-9
21839	F5DNA Interpretation	Alphanumeric		69049-5
21841	F5DNA Reviewed By	Alphanumeric		18771-6

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LOINC® and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**CPT Code Information:**

81241

**Reference Values:**

Negative