<table>
<thead>
<tr>
<th><strong>Lab Dept:</strong></th>
<th>Coagulation</th>
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<tbody>
<tr>
<td><strong>Test Name:</strong></td>
<td>FACTOR V LEIDEN</td>
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**General Information**

- **Lab Order Codes:** F5L
- **Synonyms:** Factor V Leiden (R506Q) Mutation Test, Blood; Factor 5 Mutation Test; Leiden Mutation Detection
- **CPT Codes:** 81241 – Coagulation factor V gene analysis, Leiden variant
- **Test Includes:** Factor V mutation amplification; factor V mutation digestion; factor V mutation probes; factor V mutation analysis; factor V mutation separation

**Logistics**

- **Test Indications:** Direct mutation analysis should be reserved for patients with clinically suspected thrombophilia and: APC-resistance proven or suspected by low APC-resistance ratio, Family history of the FV Leiden mutation.
- **Lab Testing Section:** Coagulation - Sendouts
- **Referred to:** Mayo Medical Laboratories (MML Test: F5DNA)
- **Phone Numbers:**
  - MIN Lab: 612-813-6280
  - STP Lab: 651-220-6550
- **Test Availability:** Daily, 24 hours
- **Turnaround Time:** 3 - 5 days
- **Special Instructions:** N/A

**Specimen**

- **Specimen Type:** Whole blood
- **Container:** Blue (Sodium Citrate) tube
  - Alternate tube: Yellow ACD or Lavender (EDTA)
- **Draw Volume:** 3 mL (Minimum: 1 mL) blood
**Processed Volume:**
Same as Draw Volume

**Collection:**
A clean venipuncture is essential. Mix thoroughly by gentle inversion.

**Special Processing:**
Lab Staff: Do Not centrifuge. Specimen should remain in original collection container. Store blood at room temperature. Ship at ambient temperatures. Forward promptly.

**Patient Preparation:**
None

**Sample Rejection:**
Mislabeled or unlabeled specimens; specimens drawn in heparin

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**Interpretive**

**Reference Range:**
Negative

An interpretive report will include specimen information, assay information, background information, and conclusions based on test results (normal, heterozygous FV R506Q, homozygous FV R506Q)

**Limitations:**
This direct mutation analysis will not detect individuals with APC-resistance caused by mechanisms other than the Factor V Leiden.

Special coagulation clinic/laboratory and/or medical genetics consultations are available and may be especially helpful in complex cases or in situations where the diagnosis is atypical or uncertain.

**Methodology:**
Direct Mutation Analysis

**References:**
Mayo Medical Laboratories March 2017

**Updates:**
1/19/2006: CPT 2006 updates
3/7/2017: Tube update.