Lab Dept:	**Coagulation**
Test Name:	**FACTOR V LEIDEN**

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

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:	3/8/2004: Test moved from Fairview Diagnostic Laboratories to Mayo Medical Laboratories. 1/19/2006: CPT 2006 updates 3/7/2017: Tube update.