
Lab Dept: Coagulation

Test Name: FACTOR V ASSAY

General Information

Lab Order Codes: F5

Synonyms: Labile Factor; Proaccelerin; Factor V Activity; Factor 5

CPT Codes: 85220 - Clotting; factor 5 (AcG or proaccelerin), labile factor

Test Includes: Factor V level reported as a %.

Logistics

Test Indications: Useful for the detection of a single factor deficiency or in conjunction with Factor VIII liver disease.

Lab Testing Sections: Coagulation

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 4 hours

Special Instructions: Patient should not be receiving heparin. If so, this should be noted on the request form. Heparin therapy can affect certain coagulation factors or assays, preclude their performance, or cause spurious results. Indicate when specimen is drawn from a line or a heparin lock. Deliver immediately to the laboratory.

Specimen

Specimen Type: Whole blood

Container: Light Blue top (Buffered Na Citrate 3.2%) tube

Draw Volume: 2.7 mL blood

Processed Volume: 0.9 mL plasma

Collection: Patients with hematocrit levels of >55% must have a special tube made to adjust for the hematocrit. Contact the laboratory for special tube. Mix thoroughly by gentle inversion.

Special Processing: Lab Staff: Spin sample collected in blue top tube(s) for 5 minutes on the Stat Spin centrifuge, remove plasma and transfer to a 4 ml BCS sample cup(s), spin remaining plasma again for 5 minutes in the Stat Spin Centrifuge. Transfer plasma to new BCS sample cup(s) for analysis (as specifically stated in each procedure) leaving approximately 200 mcL in the bottom of the original cup to discard.

Patient Preparation: Avoid Coumadin® therapy for two weeks and heparin therapy for two days prior to the test.

Sample Rejection: Improper tube; clotted samples; underfilled tubes; mislabeled or unlabeled specimens

Interpretive

Reference Range:

| Age | Range |
|---------------------|--------------|
| 0 – 1 days: | 54 – 90% |
| 2 – 5 days: | 70 – 120% |
| 6 – 30 days: | 80 – 116% |
| 31 – 90 days: | 69 – 111% |
| 91 –180 days: | 73 – 109% |
| 6 months – 5 years: | 79 – 127% |
| 6 – 10 years: | 63 – 116% |
| 11 –16 years: | 55 – 99% |
| >16 years | 62 – 159% |

Critical Values: N/A

Limitations: Interpretation of the results may be limited if patient is receiving anticoagulant therapy or if test is done more than 2 hours after collection.

Methodology: Thromboplastin clotting time correction of Factor 5 deficient plasma. Patient dilutions are compared to a known set of standard dilutions and a percentage is determined.

Contraindications:

Patient on anticoagulant therapy.

References:

Harmening DH (1997) Clinical Hematology and Fundamentals of Hemostasis

Andrew M et al (1987) Development of the Human Coagulation System in the Healthy Full-Term Infant, Blood 70:165-72

Andrew M et al (1988) Development of the Human Coagulation System in the Healthy Premature Infant, Blood 72:1651-57

Andrew M et al (1992) Development of the Human Coagulation System During Childhood, Blood 80:1998-2005

Updates:

5/24/2010: Tubing of patient specimens is no longer prohibited.

12/15/2010: Processing information updated.