



Laboratory Service Manual

Lab Dept: Coagulation

Test Name: FACTOR XI ASSAY

General Information

Lab Order Codes: F11

Synonyms: PTA; Antihemophilia Factor C; Hemophilia C; Plasma Thromboplastin Antecedent; Factor XI Activity; Factor 11

CPT Codes: 85270 - Clotting factor XI (PTA)

Test Includes: Factor 11 level reported as a %.

Logistics

Test Indications: Useful for the detection of a single factor congenital homozygous or heterozygous deficiency.

Lab Testing Sections: Coagulation

Phone Numbers:

Minneapolis: 612-813-6280

Saint Paul: 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; do not use the pneumatic tube system to transport specimen to the laboratory.

Specimen

Specimen Type: Whole blood

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

Draw Volume: 2.7 mL blood



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- 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.
- Special Processing:** Lab Staff: Centrifuge specimen, remove plasma aliquot. Run specimen or freeze to store.
- Patient Preparation:** Avoid heparin therapy for two days prior to the test.
- Sample Rejection:** The following specimens will be rejected: Improper tube, Clotted samples, Underfilled tubes, Overfilled tubes, Mislabeled or unlabeled specimens
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Interpretive

Reference Range:

Age	Range
0 – 1 days:	24 – 52%
2 – 5 days:	39 – 71%
6 – 30 days:	40 – 66%
31 – 90 days:	55 – 83%
91 – 180 days:	62 – 110%
6 months – 5 years:	50 – 150%
6 – 10 years:	52 – 120%
11 – 16 years:	50 – 100%
>16 years:	67 – 127%

- 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 11 deficient plasma. Patient dilutions are compared to a known set of standard dilutions and a percentage is determined.
- Contraindications:** Patient on anticoagulant therapy.



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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