



# Laboratory Service Manual

**Lab Dept:** Coagulation

**Test Name:** FACTOR IX ASSAY

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## ***General Information***

**Lab Order Codes:** F9

**Synonyms:** Hemophilia B; Christmas Disease; Autoprothrombin II; Plasma Thromboplastin Component; PTC; Factor IX Activity

**CPT Codes:** 85250 – Clotting; factor IX (PTC or Christmas)

**Test Includes:** Factor IX level reported as a %.

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## ***Logistics***

**Test Indications:** Useful for the detection of a single factor congenital homozygous or heterozygous deficiency or acquired due to Vitamin K deficiency or liver disease.

### **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.

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## ***Specimen***

**Specimen Type:** Whole blood

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

**Draw Volume:** 2.7 mL whole blood

**Processed Volume:** 0.9 mL plasma



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- 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: 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:	34 - 72%
2 - 5 days:	34 - 72%
6 - 30 days:	36 - 66%
31 - 90 days:	44 - 90%
91 - 180 days:	61 - 111%
6 months - 5 years:	47 - 104%
6 - 10 years:	63 - 89%
11 - 16 years:	82 - 122%
>16 years:	55 - 165%

- 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. Results will be increased in patients taking oral contraceptives.
- Methodology:** Thromboplastin clotting time correction of Factor 9 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:

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

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

Andrew M et al (1992) Development of the Human Coagulation System During Childhood, Blood 80:1198-2005