



# Laboratory Service Manual

**Lab Dept:** Coagulation

**Test Name:** FACTOR VII ASSAY

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## ***General Information***

**Lab Order Codes:** F7

**Synonyms:** Stable Factor; Proconvertin; Autoprothrombin; Factor VII Activity; Factor 7

**CPT Codes:** 85230 - Clotting; factor 7 (Proconvertin, stable factor.)

**Test Includes:** Factor VII 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 an acquired deficiency due to a lack of Vitamin K or liver disease.

**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.

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## ***Specimen***

**Specimen Type:** Whole blood

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

**Draw Volume:** 2.7 mL blood



# Laboratory Service Manual

- 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: 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® 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
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## *Interpretive*

**Reference Range:**

Age	Range
0 – 1 days:	47 – 85%
2 – 5 days	62 – 116%
6 – 30 days	62 – 114%
31 – 90 days	65 – 117%
91 – 180 days	67 – 107%
6 months – 5 years:	55 – 116%
6 – 10 years	52 – 120%
11 – 16 years	58 – 115%
>16 years	67 – 143%

**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.



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<b>Methodology:</b>	Thromboplastin clotting time correction of Factor 7 deficient plasma. Patient dilutions are compared to a known set of standard dilutions and a percentage is determined.
<b>Contraindications:</b>	Patient on anticoagulant therapy.
<b>References:</b>	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
<b>Updates:</b>	5/24/2010: Tubing of patient specimens is no longer prohibited. 12/15/2010: Processing information updated.