Lab Dept:	Coagulation
Test Name:	FIBRINOGEN
General Information	
Lab Order Codes:	FIB
Synonyms:	Clauss Fibrinogen; Plasma Fibrinogen
CPT Codes:	85384 – Fibrinogen; activity
Test Includes:	Fibrinogen level reported in mg/dL.
Logistics	
Test Indications:	Used for identifying congenital afibrinogenemia, dysfibrinogenemia, disseminated intravascular coagulation (DIC), fibrinolytic activity and severe liver disease. This test is sensitive to functional fibrinogen, and insensitive to non-clottable fibrinogen and fibrin derivatives.
Lab Testing Sections:	Coagulation
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours; Testing performed at Minneapolis and St. Paul Laboratories.
Turnaround Time:	2 hours
Special Instructions:	Deliver immediately to the laboratory; Indicate when specimen is draw from a line or a heparin lock.
Specimen	
Specimen Type:	Whole blood
Container:	Light Blue top tube (Buffered Na Citrate 3.2%)
Draw Volume:	1.8 mL blood (in 2 mL tube) or 2.7 mL blood (in a 3 mL tube).
Processed Volume:	0.9 mL plasma

Collection:	<ul> <li>A clean venipuncture is essential, avoid foaming.</li> <li>Entire sample must be collected with single collection, pooling of sample is unacceptable.</li> <li>Capillary collection is unacceptable.</li> <li>Patient's with a hematocrit level &gt;55% must have a special tube made to adjust for the hematocrit; contact lab for a special tube.</li> <li>Mix thoroughly by gentle inversion. Deliver immediately to the laboratory at room temperature via courier or pneumatic tube.</li> <li>Off campus collections:</li> <li>Must be tested within 4 hours.</li> <li>Do not refrigerate.</li> <li>If not received in our lab within 4 hours of collection, sample must be centrifuged and *platelet-poor plasma removed from cells and transferred to an aliquot tube. Freeze at -20°C and deliver to the lab on dry ice within 2 weeks.</li> <li>*Validation of your lab's centrifuge for platelet poor plasma is required.</li> <li>Lab staff: Centrifuge in Stat Spin for 5 minutes or 10 minutes at 3000 rpm at room temperature. For primary tube testing, leave plasma on cells OR remove plasma and place in a 4 mL plastic cup; allow for 100 mL of dead space.</li> <li>Test within:</li> <li>Four (4) hours when stored in the capped tube above the packed cells 18 to 24°C.</li> <li>Four (4) hours as plasma that has been separated from cells by centrifugation when stored 2 to 8°C or 18 to 24°C.</li> </ul>
	<ul> <li>Two (2) weeks when stored -20°C.</li> <li>Six (6) months when stored -70°C (rapidly frozen).</li> <li>Plasma must be frozen if testing cannot be completed within four (4) hours.</li> <li>Frozen plasmas are thawed at 37°C for three (3) minutes, test immediately.</li> </ul>
Patient Preparation:	None
Sample Rejection:	Improper tube; clotted samples; overfilled tubes; under-filled tubes; mislabeled or unlabeled specimens
Interpretive	
Reference Range:	200 – 400 mg/dL
Critical Values:	<80 mg/dL
Limitations:	N/A
Methodology:	Electromagnetic clot detection

References:	Harmening DH (1997) Clinical Hematology and Fundamentals of Hemostasis
Updates:	2/17/2005: Critical value previously listed as <100 mg/dL. 3/27/2012: Updated reference range, critical value and method. 9/15/2014: Off campus collection info added.
	7/11/2023: Updated critical value to <80 mg/dL, updated reference range to 200-400 mg/dL.
	7/18/23: Updated special processing instructions. Testing performed at MPLS and STP labs.