Lab Dept:

Coagulation

Test Name: FACTOR X ASSAY

Lab Order Codes:	F10		
Synonyms:	Stuart Factor; Stuart-Prower Factor; Factor X Activity		
CPT Codes:	85260 - Clotting factor X (Stuart-Prower)		
Test Includes:	Factor X level reported as a %.		
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, liver disease or amyloidosis.		
Lab Testing Sections:	Coagulation		
Phone Numbers:	MIN Lab: 612-813-6280		
	STP Lab: 651-220-6550		
Test Availability:	Daily, 24 hours; Testing performed in Minneapolis Laboratory only.		
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		
Container: Draw Volume:			
	Light Blue top (Buffered Na Citrate 3.2%) tube		

	 made to adjust for the hematocrit; contact lab for a special tube. Mix thoroughly by gentle inversion. Deliver immediately to the laboratory at room temperature via courier or pneumatic tube. 		
	centrifuged and *platelet-po transferred to an aliquot tub Centrifuge the plasma a set tube being careful not to ino the tube. Freeze at -20°C a weeks.	ours. within 3 hours of collection, sample must be oor plasma removed from cells and be being careful not to disturb the cell layer. cond time and transfer into a clean aliquot clude any residual platelets on the bottom of nd deliver to the lab on dry ice within 2 centrifuge for platelet poor plasma is	
Special Processing:	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.		
	 Test within: Three (3) hours when stored in the capped tube above the packed cells 18 to 24°C. Three (3) hours as plasma that has been separated from cells by centrifugation when stored 2 to 8°C or 18 to 24°C. Two (2) weeks when stored -20°C. Six (6) months when stored -70°C (rapidly frozen). Plasma must be frozen if testing cannot be completed within three (3) hours. Frozen plasmas are thawed at 37°C for three (3) minutes, test immediately. 		
Patient Preparation:	Avoid heparin therapy for two days prior to the test.		
Sample Rejection:	Improper tube; clotted samples; under-filled tubes; mislabeled or unlabeled specimens		
Interpretive			
Reference Range:	Age	Range	

		1	
	0 – 1 days:	26 – 54%	
	2 – 5 days:	34 – 64%	
	6 – 30 days:	45 – 73%	
	31 – 90 days:	53 – 89%	
	91 – 180 days:	58 – 98%	
	6 months – 5 years:	58 – 116%	
	6 – 10 years:	55 – 101%	
	11 – 16 years:	50 – 117%	
	>16 years:	70 –152%	
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 10 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		
Updated:	5/24/2010: Tubing of patient specimens is no longer prohibited. 12/15/2010: Processing information updated.		
	7/18/223: Updated special processing instructions. Testi Minneapolis location only.		
	5/7/2025: updated stability instruction.	from 4 to 3 hours per manufacturers	