

Special Coagulation Specimen Collection and Handling Instructions

TEST	SPECIMEN REQUIREMENTS	SPECIMEN PREPARATION	TIME LIMIT	TEST SCHEDULE	RESULT AVAILABILITY
Activated Partial Thromboplastin Time (APTT)	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 7,200 or 8,500 rpm for 3 minutes to obtain platelet count <200,000.	Specimen must be received in laboratory within 4 hours of collection. Centrifuge within 1 hour of collection if patient is receiving unfractionated heparin *	Test is performed 7 days a week, 24 hours a day.	STAT Results available 1 hour after receipt. Routine results available 2 hours after receipt.
Activated Protein C Resistance (APCR)	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 3,000 rpm for 15 minutes to obtain platelet poor plasma ($\leq 10,000$). Separate plasma and place in plastic tube ¹ . Freeze plasma at -70°C and refrigerate red cells. REFRIGERATE RED CELLS	Specimen must be received in laboratory within 4 hours of collection. *	Test is batched weekly.	Results available within 7 days or less.
Anti-Xa Test	See Heparin Testing Below				

*Specimens that are sent as frozen platelet poor plasma may be received outside the usual time limit.

¹Use Polypropylene 5 mL tubes with caps for freezing the samples.

TEST	SPECIMEN REQUIREMENTS	SPECIMEN PREPARATION	TIME LIMIT	TEST SCHEDULE	RESULT AVAILABILITY
Antithrombin (AT III)	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 3,000 rpm for 15 minutes to obtain platelet poor plasma (<10,000). Separate plasma and place in plastic tube ¹ . Freeze plasma at -70°C.	Specimen must be received in laboratory within 4 hours of collection. *	Testing is batched weekly.	1 Week
D-Dimer, Quantitative	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 7,200 rpm or 8,500 rpm for 3 minutes to obtain platelet count <200,000	Specimen must be received in laboratory within 8 hours of collection. *	Test is performed 7 days a week, 24 hours a day.	STAT Results available 1 hour after receipt. Routine results available 2 hours after receipt.
Factor II (2) Assay	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 3,000 rpm for 15 minutes to obtain platelet poor plasma (<10,000). Separate plasma and place in plastic	Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday in 24 hours.	Results available in 24 hours. (Monday – Friday)

		tube ¹ . Freeze plasma at -70°C.			
--	--	---	--	--	--

*Specimens that are sent as frozen platelet poor plasma may be received outside the usual time limit.

¹Use Polypropylene 5 mL tubes with caps for freezing the samples.

TEST	SPECIMEN REQUIREMENTS	SPECIMEN PREPARATION	TIME LIMIT	TEST SCHEDULE	RESULT AVAILABILITY
Factor V (5) Assay	1 sodium citrate (3.2%) <i>Glass</i> or Plastic tube	Spin specimen at 3,000 rpm for 15 minutes to obtain platelet poor plasma (<10,000). Separate plasma and place in plastic	Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday in 24 hours.	Results available in 24 hours. (Monday – Friday)
Factor VII (7) Assay	1 sodium citrate (3.2%) <i>Glass</i> or Plastic tube		Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday in 24 hour.	Results available in 24 hours. (Monday – Friday)
Factor VIII (8) Assay	1 sodium citrate (3.2%) <i>Glass</i> or Plastic tube		Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday in 24 hour.	Results available in 24 hours. (Monday – Friday)

Factor IX (9) Assay	1 sodium citrate (3.2%) <i>Glass</i> or Plastic tube	tube ¹ . Freeze plasma at -70°C.	Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday in 24 hour.	Results available in 24 hours. (Monday – Friday)
Factor X (10) Assay (THIS IS NOT an Anti-10a test)	1 sodium citrate (3.2%) <i>Glass</i> or Plastic tube		Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday in 24 hour.	Results available in 24 hours. (Monday – Friday)

*Specimens that are sent as frozen platelet poor plasma may be received outside the usual time limit.

¹Use Polypropylene 5 ml tubes with caps for freezing the samples.

TEST	SPECIMEN REQUIREMENTS	SPECIMEN PREPARATION	TIME LIMIT	TEST SCHEDULE	RESULT AVAILABILITY
Factor XI (11) Assay	1 sodium citrate (3.2%) <i>Glass</i> or Plastic tube	Spin specimen at 3,000 rpm for 15 minutes to obtain platelet poor plasma (<10,000). Separate plasma	Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday in 24 hours.	Results available in 24 hours. (Monday – Friday)
Factor XII (12) Assay	1 sodium citrate (3.2%) <i>Glass</i> or Plastic tube		Specimen must arrive in the laboratory within	Testing available Monday – Friday in 24 hours.	Results available in 24 hours. (Monday – Friday)

		and place in plastic tube ¹ . Freeze plasma at -70°C.	4 hours of collection. *		
Factor Inhibitor Screen	1 sodium citrate (3.2%) Glass or 2 Plastic (2.7mL) tubes		Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday within 2 days.	Results available in 1-2 days. (Monday – Friday)
Factor Inhibitor Titer	2 (4.5ml draw) sodium citrate (3.2%) Glass tubes or 3 Plastic (2.7mL) tubes	Spin specimen at 3000 rpm for 15 minutes to obtain platelet poor plasma (<10,000). Separate plasma and place in plastic tube ¹ . Freeze plasma at -70°C.	Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday within 3 days.	Results available in 1-2 days. (Monday – Friday)

*Specimens that are sent as frozen platelet poor plasma may be received outside the usual time limit.

¹Use Polypropylene 5 mL tubes with caps for freezing the samples.

TEST	SPECIMEN REQUIREMENTS	SPECIMEN PREPARATION	TIME LIMIT	TEST SCHEDULE	RESULT AVAILABILITY
------	-----------------------	----------------------	------------	---------------	---------------------

Fibrinogen	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 7200 rpm or 8,500 rpm for 3 minutes to obtain platelet count <200,000	Specimen must be received in laboratory within 8 hours of collection. *	Test is performed 7 days a week, 24 hours a day.	STAT Results available 1 hour after receipt. Routine results available 2 hours after receipt.
Low Molecular Weight Heparin Heparin Assay (The heparin test method is Anti-Xa , test is ordered as heparin LMWH also see Unfractionated heparin)	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 3000 rpm for 15 minutes to obtain platelet poor plasma (<10,000) . Separate plasma and place in plastic tube ¹ . Freeze plasma at -70°C.	Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday 9 a.m.—1 p.m.	Results available same day if received by 1 p.m. (Monday – Friday)
Mixing Study	2 (4.5mL) sodium citrate (3.2%) Glass tube or 3 (2.7mL) Plastic tubes		Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available within 24 hours. Monday – Friday	Results available within 24 hours. Monday – Friday
Unfractionated Heparin Heparin Assay (The heparin test method is Anti-Xa , test is ordered as Unfractionated heparin also see LMWH)	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube		Specimen must arrive in the laboratory within 1 hours of collection. *	Testing available Monday – Friday 9 a.m.—1 p.m.	Results available same day if received by 1 p.m. (Monday – Friday)

*Specimens that are sent as frozen platelet poor plasma may be received outside the usual time limit.

¹Use Polypropylene 5 mL tubes with caps for freezing the samples.

TEST	SPECIMEN REQUIREMENTS	SPECIMEN PREPARATION	TIME LIMIT	TEST SCHEDULE	RESULT AVAILABILITY
Plasminogen	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 3000 rpm for 15 minutes to obtain platelet poor plasma (<10,000). Separate plasma and place in plastic tube ¹ . Freeze plasma at -70°C.	Specimen must arrive in the laboratory within 4 hours of collection. *	Test is batched weekly.	Results are available in 1 week or less.
Platelet Aggregation	4 (4.5ml draw) sodium citrate 3.2% Glass tubes or 7 (2.7mL) Plastic tubes	Specimen must arrive in the laboratory unspun. DO NOT CENTRIFUGE OR REFRIGERATE the specimen.	Specimen must arrive in the lab within 2 hours of collection	Testing available Tuesday – Wednesday 8 AM and 11 AM. TEST MUST BE SCHEDULED**	Results available same day. Tuesday - Wednesday
Platelet Function Assay	2 (4.5ml draw) sodium citrate (3.2%) Glass tubes or 3 (2.7mL) Plastic tubes	DO NOT SPIN, REFRIGERATE OR SEND THROUGH THE TUBE SYSTEM	Specimen must arrive in the lab within 2 hours of collection	Testing available Monday – Friday 8:30—3:00 p.m. TEST MUST BE SCHEDULED**	STAT results available within 1 hour. Routine Results available in 2 hours

** Test day availability subject to change. Call 628-5738 Monday - Friday 8:00 to 3:30 pm.

*Specimens that are sent as frozen platelet poor plasma may be received outside the usual time limit.

¹Use Polypropylene 5 mL tubes with caps for freezing the samples.

TEST	SPECIMEN REQUIREMENTS	SPECIMEN PREPARATION	TIME LIMIT	TEST SCHEDULE	RESULT AVAILABILITY
Protein C Activity	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube Patient must not be taking Warfarin	Spin specimen at 3000 rpm for 15 minutes to obtain platelet poor plasma (<10,000). Separate plasma and place in plastic tube ¹ . Freeze plasma at -70°C.	Specimen must arrive in the laboratory within 4 hours of collection. *	Test is batched weekly.	Results available in 1 week or less.
Protein S Activity	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube Patient must not be taking Warfarin		Specimen must be received in laboratory within 4 hours of collection. *	Testing is batched weekly.	Results available in 1 week or less.

Prothrombin Time (PT)	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 7200 rpm or 8,500 rpm for 3 minutes to obtain platelet count <200,000)	Specimens for PT testing only are accepted up to 24 hours after procurement if the cap on the tube has not been removed. *	Test is performed 7 days a week, 24 hours a day.	STAT Results available 1 hour after receipt. Routine results available 2 hours after receipt.
------------------------------	--	---	---	--	--

* Specimens that are sent as frozen platelet poor plasma may be received outside the usual time limit.

¹Use Polypropylene 5 mL tubes with caps for freezing the samples.

TEST	SPECIMEN REQUIREMENTS	SPECIMEN PREPARATION	TIME LIMIT	TEST SCHEDULE	RESULT AVAILABILITY
Thrombin Time	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube	Spin specimen at 3000 rpm for 15 minutes to obtain platelet poor plasma (<10,000). Separate plasma and place in plastic	Specimen must arrive in the laboratory within 4 hours of collection. *	Testing available Monday – Friday within 24 hours.	Results available within 24 hours. (Monday – Friday)
Reptilase Time	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube		Specimen must arrive in the laboratory within	Testing available Monday – Friday within 24 hours.	Results available within 24 hours. (Monday – Friday)

		tube ¹ . Freeze plasma at -70°C.	4 hours of collection. *		
Von Willebrand Factor Antigen	1 sodium citrate (3.2%) <i>Glass or Plastic</i> tube		Specimen must be received in laboratory within 4 hours of collection. *	Testing is batched every week.	Results available in 1 week or less.

* Specimens that are sent as frozen platelet poor plasma may be received outside the usual time limit.

¹Use Polypropylene 5 mL tubes with caps for freezing the samples.