## 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%) Glass or Plastic 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 (≤10,000). Separate plasma and place in plastic tube <sup>1</sup> . 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 He	eparin Testing Below	/	

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

<sup>1</sup>Use Polypropylene 5 mL tubes with caps for freezing the samples.

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

	tube <sup>1</sup> . Freeze		
	plasma at -70°C.		

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

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

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<sup>1</sup>Use Polypropylene 5 ml tubes with caps for freezing the samples.

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

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

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TEST	SPECIMEN	SPECIMEN	TIME LIMIT	TEST	RESULT
	REQUIREMENTS	PREPARATION		SCHEDULE	AVAILABILITY

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

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TEST	SPECIMEN REQUIREMENTS	SPECIMEN PREPARATION	TIME LIMIT	TEST SCHEDULE	RESULT AVAILABILITY
Plasminogen	1 sodium citrate (3.2%) <i>Glass</i> or <i>Plastic</i> tube	Spin specimen at 3000 rpm for 15 minutes to obtain <b>platelet poor</b> <b>plasma</b> (<10,000). Separate plasma and place in plastic tube <sup>1</sup> . 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	<ul> <li>4 (4.5ml draw) sodium citrate 3.2% Glass tubes or 7</li> <li>(2.7mL) Plastic tubes</li> </ul>	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.

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

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

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

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

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