ALBERTA PRECISION LABORATORIES Special Coagulation Aliquoting sent to Edmonton			
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# PX06-01.610 Special Coagulation Aliquoting sent to Edmonton

#### 1. APPLICABILITY

This document is applicable to all APL personnel that send Special Coagulation testing to the UAH Special Coagulation department.

### 2. PURPOSE

This document provides instruction on aliquoting samples for Special Coagulation and related testing performed at the UAH.

#### 3. PROCEDURE

# 3.1. Aliquoting Chart

Test_Abbr	Test Description	Acceptable Specimen Tube Reject all other specimen types	<b>Frozen Aliquots</b> Plasma = citrated	
AB2G	Anti-Beta-2 Glycoprotein (UAH Special Chemistry test)	<ul> <li>Gold top, red top, or micro-collection SST tubes</li> </ul>	1 x minimum 0.5 mL <b>serum</b> UAH - forward to Chemistry bench for processing.	
AD13	ADAMTS13 Activity	<ul> <li>2 Lt Blue Citrate</li> </ul>	4 x 0.5 mL plasma Plasma should be frozen within 1 hr of collection. Clearly write on label: "Frozen @ hrs." If delay in freezing, still proceed with aliquoting.	
ACARD	Anti-cardiolipin Antibody (UAH Special Chemistry test)	<ul> <li>Gold top, red top, or micro-collection SST tubes</li> </ul>	1 x minimum 0.5 mL <b>serum</b> UAH - forward to Chemistry bench for processing.	
FVLMUT / PROM	Factor V Leiden mutation and/or Prothrombin 20210 (or Factor II) mutation (UAH Molecular Pathology test)	<ul> <li>1-4 mL mauve top tube at 4°C</li> <li>Must be a sterile, dedicated sample</li> </ul>	N/A – MUST be submitted as whole blood. Send cold. Forward to Molecular Pathology.	
FII	Factor II Activity	<ul> <li>1 Lt Blue Citrate</li> </ul>		
FVACT	Factor V Activity	<ul> <li>1 Lt Blue Citrate</li> </ul>		
FVIIACT	Factor VII Activity	<ul> <li>1 Lt Blue Citrate</li> </ul>	2 x 0.5 mL plasma per test	
FVIIICL	Factor VIII Activity, Clot Based	<ul> <li>1 Lt Blue Citrate</li> </ul>		
FVIIICHROM	Factor VIII Activity, Chromogenic	<ul> <li>1 Lt Blue Citrate</li> </ul>		
FVIIINH	FVIII Inhibitor	<ul> <li>2 Lt Blue Citrate</li> </ul>	2 x 1.0 mL plasma	

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Risto	Ristocetin Cofactor Activity	<ul> <li>1 Lt Blue Citrate</li> </ul>	2 x 0.5 mL plasma <b>per test</b>	
VWFAG	Von Willebrand Antigen	1 Lt Blue Citrate	•••	
FIXCL	Factor IX Activity, Clot Based	1 Lt Blue Citrate	2 x 0.5 mL plasma <b>per test</b>	
FIXCHROM	Factor IX Activity, Chromogenic	1 Lt Blue Citrate	· ·	
FIXINH	Factor IX Inhibitor	2 Lt Blue Citrate	2 x 1.0 mL plasma	
FXACT	Factor X Activity	1 Lt Blue Citrate		
FXIACT	Factor XI Activity	1 Lt Blue Citrate	2 x 0.5 mL plasma per test	
FXIIACT	Factor XII Activity	1 Lt Blue Citrate		
FXIIIACT	Factor XIII Activity	<ul> <li>3 Lt Blue Citrate</li> </ul>	3 x 1.0 mL plasma	
ніт	Heparin-Induced Thrombocytopenia	Gold Top tube	2 x 0.5 mL <b>serum</b> per test – Mark "serum" on label	
SRA	Serotonin Release Assay for HIT	<ul> <li>2 Red Top tubes and 2 Lt Blue Citrate</li> </ul>	**Referred out test** Refer out as per site send-out process. UAH: forward to Chemistry bench for processing.	
LUPUS ANTICO	Lupus Anticoagulant	<ul> <li>2 Lt Blue Citrate</li> <li>Order in conjunction with APA and AB2G</li> </ul>	2 x 1.0 mL plasma	
HEPFXA	Anti-Xa Heparin Level <b>or</b> Low Molecular Weight Heparin <b>or</b> Anti-Xa Assay <b>or</b> Unfractionated Heparin (LMWH: Enoxaparin, Fragmin, Dalteparin)	<ul> <li>Lt Blue Citrate</li> <li>Must be collected 4-6 hours post dose</li> <li>Room Temperature</li> </ul>	MUST be processed within 4 hours of collection. 2.x 0.5 mL plasma	
AFXA	Anti-Xa Rivaroxaban <b>Note:</b> An Anti-Xa Heparin Level will auto-reflex - process it on site if test is available or refer an aliquot to the appropriate reference site.	<ul> <li>Lt Blue Citrate</li> <li>Room Temperature</li> </ul>	**Referred out test** Refer out the Anti-Xa Rivaroxaban level as per site send-out process.	
ΑΝΤΙΧΑΑΡΙΧ	Anti-Xa Apixaban <b>Note:</b> An Anti-Xa Heparin Level will	<ul> <li>Lt Blue Citrate</li> <li>Room Temperature</li> </ul>	**Referred out test** Refer out the Anti-Xa Apixaban level as per site send-out process.	
INRHN / PTTHN / TTHN / FIBHN	INR/PT Heparin Neutralization / PTT Heparin Neutralization / Thrombin Time Heparin Neutralization / Fibrinogen Heparin Neutralization	<ul> <li>1 Lt Blue Citrate</li> </ul>	**If site does not process HEPZYME samples, call Hematopathologist on call for approval. If approved, send 2 x 1.0 mL aliquots of frozen plasma to UAH.	
ATACT	Antithrombin Activity	<ul> <li>1 Lt Blue Citrate</li> </ul>	1 x 0.5 mL plasma	
PROTC	Protein C	<ul> <li>1 Lt Blue Citrate</li> </ul>	2 x 0.5 mL plasma <b>per test</b>	
PS FREE	Protein S Antigen Free	<ul> <li>1 Lt Blue Citrate</li> </ul>		
PT IN	PT Inhibitor Screen	<ul> <li>2 Lt Blue Citrate</li> </ul>	2 x 2.0 mL plasma	
PTT IN	PTT Inhibitor Screen	<ul> <li>3 Lt Blue Citrate</li> </ul>	2 x 3.0 mL plasma	
SCINR / SCPTT	Special Coag INR and PTT	<ul> <li>1 Lt Blue Citrate</li> </ul>	2 x 0.5 mL plasma	

# 3.2. Aliquoting Instructions

Step			Notes			
1	Spin specin	nen:	Action	Refer to HE01-06.200		
	• •		oor plasma (<10 x 10 <sup>9</sup> /	Platelet Poor Plasma PPP		
	<ul> <li>1.1) Spin to obtain platelet poor plasma (&lt;10 x 10<sup>9</sup>/L). Speed and time are site specific.</li> <li>1.2) Aliquot and freeze sample aliquots within 4 hrs of collection.</li> </ul>				Verification of Centrifuge	
					for Coagulation Tests.	
2	Check spec	cimen integrity:			Note: Epic Specimen ID	
		e patient name,	me for all tubes	numbers may be different.		
		e same.		<b>,</b>		
			, remove the plasma of		Refer to HE41-300 ACL	
		ube at a time – av	•	Specimens.		
		•	or clot separator when	removing serum.		
	lf Then					
	Removing	<ul> <li>Keep plasma i</li> </ul>			Note: Check for a clot by	
	plasma for	<ul> <li>Check sample</li> </ul>	for a clot prior to addir	ng to the pool.	rimming the red cell button	
	pooling	lf	Then		with an applicator stick.	
	pooling	Clotted	<b>Do not</b> add to the plas discard.	sma pool;		
		Hemolyzed	Aliquot hemolyzed pla	sma senarately		
			and label as HEMO.			
	Not clotted and Pool plasma into a plastic container					
		not hemolyzed	(accuvette or sterile urine container).			
	Removing	lf	Not hemolyzed Proceed to Step 3.			
	serum	Not hemolyzed				
		Hemolyzed				
3			l plasma into labeled p		**Preferred aliquot tube:	
		· · ·	<ul> <li>aliquot tubes accordi</li> </ul>	•	4 mL Polypropylene	
		ne (clear plastic)	cceptable, and	Simport tube with screw		
		testing will be cancelled.			top lid:	
		Then			• Tube: Simport #T501-4T (Oracle 196337)	
		Plasma Mix the pool before aliquoting.				
	Serum	Mark "serum" on	label.		<ul> <li>Screw top lid: Simport #T501-N (Oracle 196338)</li> </ul>	
					or refer to <i>RR01-005</i>	
					Ordering Supplies from	
				Reagent Room.		
4	Freeze all a	aliquots at -70°C a	nd forward to UAH Sp	ecial Coagulation.	Note: Sample may be	
	<ul> <li>Samples from external sites should be shipped on dry ice.</li> </ul>				stored at -20°C for a short	
	•	must be received	period (e.g. 2 days) in a			
	any point	non-frost-free freezer.				

# 3.3. Contact Information

Mon-Fri, 8 am - 4 pm: University of Alberta Hospital, Special Coagulation 780-407-8487 Outside of these hours: Routine Coagulation 780-407-7232

# 4. RELATED DOCUMENTS

HE41-300 ACL Specimens

HE01-06.200 Platelet Poor Plasma PPP Verification of Centrifuge for Coagulation Tests RR01-005 Ordering Supplies from Reagent Room