

LSUHSC-SHREVEPORT
CLINICAL LABORATORY POLICY AND INFORMATION MANUAL
HEMATOLOGY

All specimens drawn for the Hematology Laboratory should be delivered as soon as possible after collection.

Test Description Lab (SQ) Code	Specimen Type	Tube Type	Special Instructions or Information	Patient Preparation
CBC	Blood	Purple Top:K ₂ EDTA 1. 4 ml full, 1 ml minimum 2. 2 ml, minimum 1 ml 3. 500 µL, microtainer	This test includes: WBC,RBC,HGB,HCT,MCV, MCH,MCHC,RDW,PLT,MPV.	None
CBC/DIFF CBCD	Blood	Purple Top:K ₂ EDTA 1. 4 ml full, 1 ml minimum 2. 2 ml, minimum 1 ml 3. 500 µL, microtainer	This test includes: WBC,RBC,HGB,HCT,MCV, MCH, MCHC, RDW, PLT, MPV and Differential.	None
CSF Count and Differential, CSFCD (includes Nucleated cell count, RBC count and differential)	CSF	Plastic Sterile Screw Cap, 0.5 mL minimum	In addition to all the other patient information, CSF tubes should be labeled numerically to correspond to the sequence in which the tubes were collected. Tube 4 (last collected) is best for CSFCD. Tubes 1 & 4 are used to evaluate a traumatic tap. Tubes should be delivered to the laboratory immediately after collection.	None
CSF Package, CSFPA (Includes CSFCD, CGLU,CSFP)	CSF	Plastic Sterile Screw Cap 1.0 ml minimum	Tubes should be numbered to collection sequence, two tubes required. Tests include CSF cell count and differential, CSF glucose and CSF protein.	None
Fluid Count Count and Differential, FLDCD (includes Nucleated cell count, RBC count and differential)	Fluid Not CSF	1. Purple top for joint fluid 2. Sterile screw -top culture tube for other fluids. 0.5 mL minimum for 1 or 2	Specify specimen type, ex. PERT or ABD. Tubes should be delivered to the laboratory immediately after collection. Important: Purple top cannot be used for joint fluid crystal analysis. A separate sterile screw top tube just be used for crystal analysis.	None
Hematocrit/Spun, SHCT	Blood	Mylar wrapped capillary tubes sealed on one end.	Minimum - 2/3 to 3/4 full.	None
Hemoglobin/ Hematocrit HH	Blood	Purple Top:K ₂ EDTA 1. 4 ml full, 1 ml minimum 2. 2 ml,minimum1 ml 3. 500 µL, microtainer	None	None
Malarial Smears MALAR [(Thin smear results, thick smear results, 0/0 parasitemia (if positive)]	Blood	Purple Top:K ₂ EDTA 1. 4 ml full, 1 ml minimum 2. 2 ml, minimum 1 ml 3. 500 µL, microtainer	SPECIFIC COLLECTION INSTRUCTIONS GIVEN BY PHYSICIAN. See Note A. Thin smears are stained and read STAT. Thick smears are stained and read on the next day shift. Important: One initial set of negative results does not rule out malaria.	None
Misc. Wright Stain MWS	Misc. source	Misc. tube type		None
Nasal Wright's Smear NWS	Nasal Drainage	Microscope Slide (2)	SPECIFIC COLLECTION INSTRUCTIONS GIVEN BY PHYSICIAN. See Note B.	None

Note A: Thin smears are stained and read STAT. Thick smears are stained and read on the next day shift.

Note B: Test not routinely performed on weekends, holidays or evening shifts. Specimen will be processed upon receipt and resulted on the next routine working day.

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Platelet PLATE	Blood	Purple Top:K ₂ EDTA 1. 4 ml full, 1 ml minimum 2. 2 ml, minimum 1 ml 3. 500 µL, microtainer	In cases of chronic PLT clumping where no PLT count could be obtained, a Blue top (Na Citrate) tube and/or a Green top (Na heparin or Li heparin) tube can be submitted WITH the purple top to try to obtain a PLT count (doesn't always work). Notify lab that extra tubes are being sent due to previous PLT clumping.	None
Reticulocytes RETIC (% , Absolute, IRF)	Blood	Purple Top:K ₂ EDTA 1. 4 ml full, 1 ml minimum 2. 2 ml, minimum 1 ml 3. 500 µL, microtainer	None. RETMA (manual Retic %, Absolute) will be reported if automated RETIC cannot be turned out.	None
Sed Rate ESR	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	If any COAG tests are also ordered, send additional blue tops (s) for COAG test requirements.	None
SickleCell Prep SIKL	Blood	Purple Top:K ₂ EDTA 1. 4 ml full, 1 ml minimum 2. 2 ml, minimum 1 ml 3. 500 µL, microtainer	Screening test only.	None
Semen Analysis, SEMEN (Includes sperm count, volume, pH, motility, Morphology))	Semen	Chemically clean, dry container containing entire ejaculate. No condoms accepted.	Should be kept at body temperature and delivered to lab within 30 minutes of collection by 1PM MON-FRI, no holidays. Specific Collection instructions given by physician. Semen Collection Information form must accompany specimen.	Abstinent 2-7 days prior to collection
Sputum Wright's Stain SPWS	Sputum	Chemically clean, dry container.	See Note.	
Stool Wright's Smear SWS	Stool	Chemically clean, dry container with stool. Minimum – stool swab in Plastic screw top culture tube.	SPECIFIC COLLECTION INSTRUCTIONS GIVEN BY PHYSICIAN.	None
Urine Wright's Smear UWS	Urine	Plastic screw top culture tube 0.5 mL minimum	Clean catch or CATH specimen.	None
Zinc Protoporphyrin ZP	Blood	Purple Top:K ₂ EDTA 1. 4 ml full, 1 ml minimum 2. 2 ml, minimum 1 ml 3. 500 µL, microtainer	If lead poisoning is suspected, order LPP (lead poisoning panel) instead of ZP. SMS order code for LPP is 5075. ZP's are batch-tested once a week.	None

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Activated Partial Thromboplastin Time APTT	Blood	Blue Top: 3.2% Na Citrate 1. Exactly 2.7 ml-large 2. Exactly 1.8 ml-small	See Note A and Note C	None
Activated Protein C Resistance APCR	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Antithrombin III ATIII	Blood	Blue Top: 3.2% Na Citrate 1. Exactly 2.7 ml-large 2. Exactly 1.8 ml-small	See Note A and Note C	None
Bleeding Time BT		Test performed by lab. Must call coagulation section to schedule.	Test not routinely performed on weekends, holidays or evening shifts.	None
D-Dimer DDI	Blood	Blue Top: 3.2% Na Citrate 1. Exactly 2.7 ml-large 2. Exactly 1.8 ml-small	See Note A and Note C	None
Factor II Assay FA2	Blood	Blue Top: 3.2% Na Citrate 1. Exactly 2.7 ml-large 2. Exactly 1.8 ml-small	See Note A, Note B, and Note C	None
Factor V Assay FA5	Blood	Blue Top: 3.2% Na Citrate 1. Exactly 2.7 ml-large 2. Exactly 1.8 ml-small	See Note A, Note B, and Note C	None
Factor VII Assay FA7	Blood	Blue Top: 3.2% Na Citrate 1. Exactly 2.7 ml-large 2. Exactly 1.8 ml-small	See Note A, Note B, and Note C	None

Note A: Blue top tubes contain a liquid anticoagulant making it necessary for these specimens to contain exactly the correct amounts of blood in order for test results to be reliable. These specimens also have to be free of hemolysis and contain no clots. Blue tops must be drawn before plastic Red tops. The plastic Red tops contain an activator which interferes with COAG tests. Specimens should be delivered to the laboratory within 30 minutes.

Note B: Test not routinely performed on weekends, holidays or evening shifts. Plasma for test will be frozen for next routine working day.

Note C: When obtaining specimens from indwelling lines that may contain heparin, the line should be flushed with 5ml of saline, and the first 5 ml of blood or 6-times the line volume (dead space volume of the catheter) be drawn off and discarded before the coagulation tube is filled.

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Test Description Lab (SQ) Code	Specimen Type	Tube Type	Special Instructions or Information	Patient Preparation
Factor VIII Assay FA8	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Factor VIII Inhibitor Assay F8IN	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Factor IX Assay FA9	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Factor IX Inhibitor Assay F9IN	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Factor X Assay FA10	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Factor XI Assay FA11	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Factor XII Assay FA12	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Factor XIII Assay FA13	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None

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Note C: When obtaining specimens from indwelling lines that may contain heparin, the line should be flushed with 5ml of saline, and the first 5 ml of blood or 6-times the line volume (dead space volume of the catheter) be drawn off and discarded before the coagulation tube is filled.

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Fibrinogen FBG	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A and Note C	None
Heparin Associated/Induced Thrombotic Thrombocytopenia HATT or HITT	Blood		Reference test. Not available at this time in COAG section. Call referral section (55715) for information.	None
Inhibitor Screen (Mixing Study) INSCR	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A and Note C Should have a prolonged PT and/or PTT.	None
Lupus Anticoagulant LUPU	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Plasminogen PLG	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A and Note C	None
Platelet Rich Platelet Aggregation PRAGG	Blood	Blue and purple top 1. 8 blue top tubes with exactly 2.7 ml in each. 2. 1 purple top. Minimum one ml.	See Note A and Note C Must notify lab to schedule (5-5705, 5743). Test not routinely performed on weekends, holidays, or evening shifts.	None

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Note B: Test not routinely performed on weekends, holidays or evening shifts. Plasma for test will be frozen for next routine working day.

Note C: When obtaining specimens from indwelling lines that may contain heparin, the line should be flushed with 5ml of saline, and the first 5 ml of blood or 6-times the line volume (dead space volume of the catheter) be drawn off and discarded before the coagulation tube is filled.

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Test Description Lab (SQ) Code	Specimen Type	Tube Type	Special Instructions or Information	Patient Preparation
Prothrombin Time PT	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A and Note C	None
Reptilase REPT	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A and Note C	None
Thrombin Time TT	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A and Note C	None
Protein C, Function PCFN	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Protein S, Function PSFN	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None
Von Willebrand Antigen VWANG	Blood	Blue Top: 3.2% Na Citrate 1. 2.7 ml-large blue 2. 1.8 ml-small blue	See Note A, Note B, and Note C	None

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Note B: Test not routinely performed on weekends, holidays or evening shifts. Plasma for test will be frozen for next routine working day.

Note C: When obtaining specimens from indwelling lines that may contain heparin, the line should be flushed with 5ml of saline, and the first 5 ml of blood or 6-times the line volume (dead space volume of the catheter) be drawn off and discarded before the coagulation tube is filled.

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FLOW CYTOMETRY

Test Description Lab (SQ) Code	Specimen Type	Tube Type	Special Instructions or Information	Patient Preparation
Immunophenotyping : Immunodeficiency Panel Lymphoma / Leukemia Panel	Bone Marrow or Peripheral blood or Tissue specimen	Contact Hematology	Transport at room temperature. Must be scheduled-call 5739. Send with consult. See note below.	None
T Helper/Suppressor Panels CD4/CD8/CD3	Peripheral blood	Purple and Yellow Top 1. 1 purple top 4ml full, 2ml minimum 2. 1 yellow top, 6 ml full, 3 ml minimum.	See note below.	None
Viral Disease Panel CD4	Peripheral blood	Purple and Yellow Top 1. 1 purple top 4ml full, 2ml minimum 2. 1 yellow top, 6 ml full, 3 ml minimum.	See note below.	None
PNH	Blood	1 purple Top 4ml full, 2ml minimum	Send with consult. See note below.	None

* Not available at this time for floor use. Ordered by the laboratory only.

Note: The Flow Cytometry Laboratory performs testing Monday through Friday 8 am to 4 PM excluding weekends, holidays and evening shifts. Specimens sent on Friday must arrive no later than 3 PM. Specimens may be sent on alternate shifts to be performed the next routine working day. **If an ESR is also ordered, send an extra blue top tube for this test.**