

LSUHSC-SHREVEPORT
CLINICAL LABORATORY POLICY AND INFORMATION MANUAL
MOLECULAR PATHOLOGY/CYTOGENETICS
Specimen Collection Link

Hours of operation: 8:00 AM- 4:30 PM, Monday – Friday. A Molecular Path/Cytogenetics Lab Test Requisition (Form S/N 7480) must accompany all samples; testing will not be completed without this form. For any questions during routine working hours, contact the laboratory at extension 58545. For questions after normal hours of operation contact Clinical Lab office (x55700) and ask that Molecular or cytogenetics personnel on call be paged.

CYTOGENETICS					
	Blood Chromosome Analysis: Constitutional	Blood	Green Top 4.0 ml (Sodium heparin)	Transport at room temperature. TAT: 14 days	None
	Blood Chromosome Analysis: Oncology	Blood	Green Top 4.0 ml (Sodium heparin)	Transport at room temperature. TAT: 7-10 days	No recent transfusions.
	Bone Marrow Chromosome Analysis: Oncology	Bone Marrow	Green Top 4.0 ml (Sodium heparin)	Transport at room temperature. TAT: 7-10 days	None
	Tissue Chromosome Analysis: Lymph node, Tumor Solid Tumor	Lymph node Tissue Solid Tumor	Tissue	1 x 1 inch fragment sent in sterile RPMI transport media or Hanks BSS Transport at Room temperature ASAP TAT : 14-21 days	Store at room temperature. Refrigerate if held overnight.
	Tissue Chromosome Analysis: Product of conception	Tissue	Tissue Not exposed to formalin	1 x 1 inch fragment sent in sterile RPMI transport media or Hanks BSS Transport at Room temperature ASAP TAT: 23-30 days	Store at room temperature. Refrigerate if held overnight.
	Amniotic fluid Chromosome Analysis	Amniotic fluid by transabdominal	15 cc Screw-Top polypropylene centrifuge tube.	Transport at room temperature. TAT: 10-14 days	None

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FLUORESCENCE IN-SITU HYBRIDIZATION (FISH)

	<p>Fluorescence in situ hybridization (FISH): Prenatal</p>	<p>Blood Amniotic fluid</p>	<p>Green Top 4.0 ml (Sodium heparin) Light Lavender: 2 ml. Lavender: 4 ml. Sterile Screw Top Tube</p>	<p>Transport at room temperature. TAT: 2-4 days NOTE: Helpful in assessing copy number of specific chromosomes present. Most probes available for all chromosomes.</p>	<p>None</p>
	<p>Fluorescence in situ hybridization (FISH): Oncology</p>	<p>Blood Bone Marrow Tissue</p>	<p>Green Top 4.0 ml (Sodium heparin) Light Lavender: 2 ml. Lavender: 4 ml. 1 x 1 inch fragment sent in sterile Saline, RPMI, or Hanks BSS</p>	<p>Transport at room temperature. TAT: 7 days NOTE: Many cancer-related probes are available. Very good in identifying common translocations/abnormalities in cancer: e.g. t(9;22), t(15;17), t(2;5), inv(16) Call laboratory for specific questions regarding probes</p>	<p>None</p>
	<p>Fluorescence in situ hybridization (FISH): Microdeletion Syndromes</p>	<p>Blood Bone Marrow Amniotic fluid</p>	<p>Green Top 4.0 ml (Sodium heparin) Light Lavender: 2 ml. Lavender: 4 ml. Sterile Screw Top Tube</p>	<p>Transport at room temperature. TAT: 7 days NOTE: Probes for Prader-Willi/ Angelman, DiGeorge / VCFS, Cri-du-Chat, Williams, and other microdeletion syndromes.</p>	<p>None</p>

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MOLECULAR PATHOLOGY					
	B Cell Immunoglobulin Heavy Chain , Kappa Light Chain, or Lambda light chain gene rearrangement: by PCR	Blood, Bone marrow, or Tissue	Green Top 4.0 ml (Sodium heparin) Light Lavender: 2 ml. Lavender: 4 ml. 0.5 gms. Fresh tissue in sterile Saline, RPMI. Paraffin-embedded material	Transport blood or bone marrow at room temperature. Keep fresh tissue cold or frozen with dry ice. TAT blood or bone marrow: 7-10 days TAT paraffin tissue: 14-21 days	None
	T Cell receptor (Gamma, Beta, or Delta chain rearrangements): by PCR	Blood, Bone marrow, or Tissue	Green Top 4.0 ml (Sodium heparin) Light Lavender: 2 ml. Lavender: 4 ml. 0.5 gms. Fresh tissue in sterile Saline, RPMI. Paraffin-embedded material	Transport blood or bone marrow at room temperature. Keep fresh tissue cold or frozen with dry ice. TAT blood or bone marrow: 7-10 days TAT paraffin tissue: 14-21 days	None
**Hypercoag. Panel: Includes Factor II, Factor V, MTHFR	Factor II (prothrombin) Mutation DNA Test: By PCR	Blood	Light Lavender: 2 ml. Lavender: 4 ml.	Transport at room temperature TAT: 7-10 days	None
	Factor V (Leiden) Mutation DNA Test: By PCR	Blood	Light Lavender: 2 ml. Lavender: 4 ml.	Transport at room temperature TAT: 7-10 days	None
	Methylenetetrahydrofolate reductase (MTHFR) Mutation DNA Test: By PCR	Blood	Light Lavender: 2 ml. Lavender: 4 ml.	Transport at room temperature TAT: 7-10 days NOTE: Both C677T and A1298C mutations assessed	None

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	Cytogenetic Translocations in Leukemia: e.g., t(9;22) BCR/ABL and t(15;17)PML/RARA	Blood or Bone marrow	Light Lavender: 2 ml. Lavender: 4 ml.	Transport at room temperature TAT: 7-10 days	
	Hereditary Hemochromatis Mutations (HFE) by PCR	Blood	Light Lavender: 2 ml. Lavender: 4 ml.	Transport at room temperature TAT: 7-10 days NOTE: H63D, C282Y, and S65C mutations assessed	None
	JAK2 by PCR	Blood or Bone marrow	Green Top 4.0 ml (Sodium heparin) Light Lavender: 2 ml. Lavender: 4 ml.	Transport at room temperature TAT: 7-10 days	None

Director Approval:

Stephen M. Bonsib, M.D./Director, Department of Pathology

Date

Division Approval:

Jaiyeola Thomas, M.D./Medical Director, Anatomic Division

Date

James Cotelingam, M.D./Medical Director, Clinical Division

Date