

# CANCER GENETICS AND GENOMICS LABORATORY



## LYMPHOID TESTING

BC CANCER  
 DEPT. OF PATHOLOGY AND LABORATORY MEDICINE  
 ROOM 3307 - 600 WEST 10TH AVENUE  
 VANCOUVER BC V5Z-4E6

604-877-6000 EXT 67-2094  
 FAX: 604-877-6294  
[WWW.CANCERGENETICSLAB.CA](http://WWW.CANCERGENETICSLAB.CA)  
[CANCERGENETICSLAB@BCCANCER.BC.CA](mailto:CANCERGENETICSLAB@BCCANCER.BC.CA)

CANCER GENETICS LAB  
 SHIRE LABEL USE ONLY

PATIENT INFORMATION						REQUESTING PHYSICIAN						
Last Name			First and Middle Names			Name			MSP			
Date of Birth dd/mmm/yyyy		Gender Male    Female    X    Unknown				Phone		Fax				
PHN		BC Cancer ID		Cerner MRN		Address						
SPECIMEN						NOTE: PHYSICIAN SIGNATURE REQUIRED (BELOW)						
Specimen Type PB BM Aspirate MAA ( PB BM) FFPE Block (will be scrolled or cored) CGL Specimen Other		Originating Hospital		Collection Date (dd/mmm/yyyy) and Time		<b>COPY PHYSICIANS (ALL INFORMATION IS NECESSARY)</b>						
		Referring Lab/Hospital Sample ID		Tissue Type		Name			MSP			
		Tumour Content (%) for circled FISH area		Tumour Content (%) for whole section		Address			Name			
<b>REASON FOR TESTING / DIAGNOSIS / CLINICAL HISTORY (REQUIRED FOR TEST TO PROCEED)</b>						Name			MSP			
						Address			Name			MSP
SEE PAGE 2 FOR ACCEPTED SAMPLE TYPES				CYTOGENETICS (FISH/KARYOTYPE)				MOLECULAR				
<b>LYMPHOID</b>	<b>Acute Lymphoblastic Leukemia</b>			<i>BCR::ABL1 t(9;22) FISH</i> Karyotype				<i>BCR::ABL1:</i> MRD Baseline    MRD Monitor Kinase Domain, Current therapy: _____				
	<b>Chronic Lymphocytic Leukemia</b>			FISH Panel ( <i>PB/BM only</i> )				CLL NGS Prognostic Panel (including <i>TP53</i> )				
	Mucosa-associated Lymphoid Tissue (MALT)			<i>MALT1</i>								
				Mantle Cell			<i>CCND1::IGH (PB/BM only)</i>					
	Follicular			<i>BCL2 BCL6</i>								
	DLBCL/High Grade B-Cell Lymphoma			<i>MYC BCL2 (reflex testing only)</i>				Lymphoma Expression Assay (LExA)				
	Burkitt Lymphoma			<i>MYC BCL2 BCL6</i>				Lymphoma Expression Assay (LExA)				
	Burkitt-like with 11q			<i>11q</i>								
	Large B-cell lymphoma with IRF4			<i>IRF4</i>								
	Anaplastic Large Cell			<i>DUSP22, TP63</i>								
Non-Hodgkin's Lymphoma (NHL)							B-cell clonality		T-cell clonality			
Lymphoplasmacytic Lymphoma							<i>MYD88</i>					
<b>OTHER</b>	<b>Chimerism</b>							Pre-transplant assessment: Donor    Recipient Post-transplant    Transplant Date: _____				
	<b>Lymphoid and Myeloid neoplasm with Eosinophilia</b>			FISH Panel								
	<b>Multiple Myeloma</b>			FISH Panel ( <i>BM only</i> )				Clonotype determination (new diagnosis of Transplant Eligible Multiple Myeloma only)				
<b>For FFPE FISH requests, the following are required or the case will be returned without testing:</b>												
<ul style="list-style-type: none"> <li>One H&amp;E stained slide with the area for FISH scoring circled on the H&amp;E slide</li> <li>Tumour content (see <b>NOTE</b> below) of the circled FISH region written in the space provided in the Specimen Section (above)</li> <li>Three 4-5µm unstained tissue sections on positively charged slides</li> <li>Tissue block - which will be returned when the test has been completed</li> </ul>												
<b>For LExA, MYD88, CLL NGS on FFPE specimens, the following are required or the case will be returned without testing:</b>												
<ul style="list-style-type: none"> <li>One H&amp;E stained slide with the area circled</li> <li>Tumour content (see <b>NOTE</b> below) for the whole section written in the space provided in the Specimen Section (above)</li> <li>A minimum tumour content of 40% is required over the entire section to proceed with LExA testing</li> <li>Tissue block - which will be returned when the test has been completed</li> </ul>												
<b>NOTE:</b> Tumour content refers to the proportion (%) of nuclei that are tumour in a given area												
<b>PHYSICIAN SIGNATURE (REQUIRED)</b>						<b>DATE</b>						
<b>Lab Use Only</b>		EDTA	NaHep	Media	FFPE Block	Scrolls	H&E	IHC	Unstained	Notes		
	PB											
	BM											
	Other											



## CANCER GENETICS AND GENOMICS LABORATORY LYMPHOID TESTING

### ACCEPTED SAMPLE TYPES FOR EACH TEST REQUEST

- Additional information and shipping information found on the Cancer Genetics and Genomics Laboratory website: <https://cancergeneticslab.ca/guidelines/specimens/>
- One sample for each request
- For FFPE FISH requests, the following are required or the case will be returned without testing:
  - One H&E stained slide with the area for FISH scoring circled on the H&E slide
  - Tumour content of the circled FISH region written in the space provided in the Specimen Section
  - Three 4-5µm unstained tissue sections on positively charged slides
  - Tissue block - which will be returned when the test has been completed
- For LExA, MYD88, CLL NGS on FFPE specimens, the following are required or the case will be returned without testing:
  - One H&E stained slide with the area circled
  - Tumour content for the whole section written in the space provided in the Specimen Section
  - A minimum tumour content of 40% is required over the entire section to proceed with LExA testing
  - Tissue block - which will be returned when the test has been completed

CYTOGENETICS (FISH/KARYOTYPE)			PB		BM		MAA	FFPE		
			NAHEP		MEDIA TUBE	EDTA	PB / BM	H&E (CIRCLE TUMOUR)	BLOCK / SLIDE	TUMOUR CONTENT/ CELLULARITY
<b>LYMPHOID</b>	Acute Lymphoblastic Leukemia	FISH	6ml	2 x 1ml	1ml	✓				
		Karyotype		2 x 1ml		✓				
	Chronic Lymphocytic Leukemia	FISH Panel	6ml	2 x 1ml		✓				
	Anaplastic Large Cell Lymphoma	FISH					✓	✓	✓	
	Burkitt Lymphoma	FISH					✓	✓	✓	
	Burkitt-like Lymphoma with 11q	FISH					✓	✓	✓	
	DLBCL/High grade B-cell Lymphoma	FISH					✓	✓	✓	
	Follicular Lymphoma	FISH					✓	✓	✓	
	Large B-cell Lymphoma with <i>IRF4</i>	FISH					✓	✓	✓	
	MALT Lymphoma	FISH					✓	✓	✓	
<b>OTH</b>	Lymphoid and Myeloid neoplasm with Eosinophilia	FISH panel	6ml	2 x 1ml	1ml	✓				
	Multiple Myeloma	FISH Panel		2 x 1ml						

MOLECULAR (DNA, RNA, ctDNA)			EXTRACTION	PB	BM	MAA	FFPE		
				EDTA	EDTA	PB / BM	H&E (CIRCLE TUMOUR)	BLOCK / SLIDE	TUMOUR CONTENT/ CELLULARITY
<b>LYMPHOID</b>	Acute Lymphoblastic Leukemia	MRD Baseline	RNA	20ml	0.5ml	✓			
		MRD Monitor Kinase Domain							
	Burkitt Lymphoma	Lymphoma Expression Assay	RNA					✓	✓
	Chronic Lymphocytic Leukemia	CLL NGS Prognostic (CVM) Panel	DNA	6ml	0.5ml	✓		✓	✓
	DLBCL/High grade B-cell Lymphoma	Lymphoma Expression Assay	RNA					✓	✓
	Lymphoplasmacytic Lymphoma	<i>MYD88</i>	DNA				✓	✓ BM	✓
<b>OTHER</b>	Chimerism	Pre-transplant assessment	DNA	6ml				✓	
		Post-transplant assessment (sample processed at Stem Cell Lab)	DNA	20ml NaHep @Stem Cell Lab					
	Multiple Myeloma	Clonotype determination	DNA		2ml				