

<div>CANCER GENETICS AND GENOMICS LABORATORY</div> <div>MYELOID TESTING</div> <div><div><div>BC</div><div>CAN</div><div>CER</div></div><div><div>BC CANCER</div><div>DEPT. OF PATHOLOGY AND LABORATORY MEDICINE</div><div>ROOM 3307 - 600 WEST 10TH AVENUE</div><div>VANCOUVER BC V5Z-4E6</div></div><div><div>604-877-6000 EXT 67-2094</div><div>FAX: 604-877-6294</div><div>MON-FRI 8:30AM-4:30PM</div><div><a href="http://WWW.CANCERGENETICSLAB.CA">WWW.CANCERGENETICSLAB.CA</a></div><div><a href="mailto:CANCERGENETICSLAB@BCCANCER.BC.CA">CANCERGENETICSLAB@BCCANCER.BC.CA</a></div></div></div>						ADDRESSOGRAPH OR PATIENT LABEL					
PATIENT INFORMATION						REQUESTING PHYSICIAN					
Last Name			First and Middle Names			Name		MSC			
Date of Birth (dd/mmm/yyyy)		Gender Male      Female      Non Binary/Other/Not disclosed				Phone		Fax			
PHN		BC Cancer ID		Cerner MRN		Address					
SPECIMEN						NOTE: PHYSICIAN SIGNATURE REQUIRED (BELOW)					
Specimen Type PB BM Aspirate MAA ( PB BM) Other _____		Originating Hospital		Collection Date dd/mmm/yyyy		COPY PHYSICIANS (ALL INFORMATION IS NECESSARY)					
		Referring Lab/Hospital Sample ID		Important: Myeloid Panel may detect variants associated with hereditary conditions		Name		MSC			
REASON FOR TESTING / DIAGNOSIS / CLINICAL HISTORY (REQUIRED FOR TEST TO PROCEED)						Address					
						Name		MSC			
						Address					
SEE PAGE 2 FOR ACCEPTED SAMPLE TYPES		CYTOGENETICS (FISH, KARYOTYPE)		MOLECULAR							
MYELOID	Acute Myeloid Leukemia		2 BM specimens required: Karyotype (BM in media) / OGM (BM in EDTA)  FISH (specify probes): _____		New Diagnosis		All 3 specimens required prior to initiation of therapy: Myeloid Panel / Rapid AML Mutation Panel (BM in EDTA for DNA) MRD Baseline (BM in EDTA for RNA) MRD Baseline (PB in EDTA for RNA)				
					MRD Monitoring		t(8;21) inv(16)/t(16;16) NPM1  **Restricted to patients being treated with intensive chemo and/or eligible for HSCT **				
					Relapsed / Refractory		FLT3 ITD & TKD				
	Acute Promyelocytic Leukemia		PML::RARA t(15;17) FISH 2 BM specimens required: Karyotype (BM in media)/ OGM (BM in EDTA)		PML::RARA		MRD Baseline      MRD Monitor      query APL				
	Chronic Myeloid Leukemia		BCR::ABL1 t(9;22) FISH 2 BM specimens required: Karyotype (BM in media)/ OGM (BM in EDTA)		BCR::ABL1		MRD Baseline      MRD Monitor Kinase Domain      Current therapy: _____				
	Mast cell disease				KIT D816V/F						
	Myelodysplastic Syndrome		2 BM specimens required: Karyotype (BM in media)/ OGM (BM in EDTA)		Myeloid Panel (BM only)						
OTHER	Myeloproliferative Neoplasm		BCR::ABL1 t(9;22) FISH 2 BM specimens required: (MF, CMML only) Karyotype (BM in media)/ OGM (BM in EDTA)		Single-Gene		qry JAK2 V617F MPN				
					Myeloid panel (BM only)		qry JAK2 V617F negative MPN qry JAK2 V617F positive MF (LEUK/BMT Physicians only)				
	Chimerism				Pre-transplant:      Donor      Recipient Post-transplant      Transplant Date: _____						
Neoplasm with Eosinophilia		FISH Panel									
Multiple Myeloma		FISH Panel (BM in media)									
PHYSICIAN SIGNATURE (REQUIRED)			DATE								
LAB USE ONLY		PB NaHEP		PB EDTA		BM EDTA		BM Media		Other	

### 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/>
- Separate tubes are required for each test requested with different extraction methods (e.g. If FLT3 (DNA), MRD baseline (RNA) and cytogenetics are requested; three tubes of each sample should be collected

CYTOGENETICS (FISH, KARYOTYPE)			PB	BM		MAA
			NaHep	MEDIA TUBE	EDTA	PB / BM
MYELOID	Acute Myeloid Leukemia	FISH	6ml	2 x 1ml	1ml	✓
	Acute Promyelocytic Leukemia	Karyotype		2 x 1ml		✓
	Chronic Myelogenous Leukemia	OGM			1ml	
	Myeloproliferative Neoplasm Myelodysplastic Syndrome					
OTHER	Neoplasm with Eosinophilia	FISH panel	6ml	2 x 1ml	1ml	✓
	Multiple Myeloma	FISH Panel		2 x 1ml		

MOLECULAR (DNA, RNA)				EXTRACTION	PB	BM	MAA
					EDTA	EDTA	PB / BM
MYELOID	Acute Myeloid Leukemia	New Diagnosis (all required)	Myeloid Panel AND Rapid Mutation Panel	DNA		0.5ml	✓
			MRD Baseline - BM	RNA		0.5ml	✓
			MRD Baseline - PB	RNA	20ml		✓
		MRD Monitoring	t(8;21) inv(16)/t(16;16) NPM1	RNA	20ml	0.5ml	✓
		Relapsed/Refractory	FLT3 ITD & TKD	DNA	6ml	0.5ml	
	Acute Promyelocytic Leukemia		MRD Baseline / Monitor	RNA	20ml	0.5ml	✓
	Chronic Myelogenous Leukemia		MRD Baseline / Monitor Kinase Domain	RNA	20ml	0.5ml	✓
	Mast Cell Disease		KIT D816V/F	DNA	6ml	0.5ml	✓
	Myelodysplastic Syndrome		Myeloid Panel	DNA		0.5ml	
	Myeloproliferative Neoplasm		Single-gene testing query JAK2 V617F MPN	DNA	6ml	0.5ml	✓
OTHER	Chimerism	Pre-transplant assessment		DNA	6ml		
		Post-transplant assessment (sample processed at Stem Cell Lab)		DNA	NaHep @Stem Cell		