

## Legacy Laboratory Services Bone Marrow Collection Guidelines and Instructions

Physician Order EPIC	Millennium Order Mnemonic	Testing Laboratory	Bone Marrow Collection with Lab Assistance	Bone Marrow Processing	Lab Instructions	Notes for Sample Collection
Pathology Bone Marrow Studies	AP BM SPEC	Central Lab Histology 503-944-7950	BM Aspirate – Unheparinized Syringe	Aspirate slides – prepare 7-15 slides	Immediately prepare fresh aspirate smears	It is preferable to use unheparinized bone marrow for aspirate smears and clot.  If necessary, heparinized aspirate can be used to prepare aspirate slides.
				Buffered formalin solution- BM Clot	Do not add BM Clot to container containing the BM Biopsy specimen	If necessary, heparinized aspirate can be used with thrombin for BM Clot. Refer to BM.0103, Section VII. For more details
			BM Aspirate – Heparinized Syringe	EDTA Tube – 2 to 4 mL	All bone marrows are to have a Flow Lab specimen collected, even if Flow studies have not been ordered. Mark the EDTA specimen as “Flow-HOLD”	
			BM Biopsy- 1 to 2 cm of biopsy core sample is to be submitted to histology.	Biopsy Touch Preps – 2 slides	Prepare touch prep slides before placing biopsy into buffered formalin	In the case of a dry tap, or if aspirate slides are of poor quality, prepare 4 touch prep slides.
				Buffered formalin solution – Biopsy	Note the date and time biopsy goes into formalin directly on bottle label	
			<b>In the case of a dry tap:</b>	<ol style="list-style-type: none"> <li>1. Prepare 4 touch prep slides from the biopsy sample</li> <li>2. Histology requires 1 cm minimum of biopsy in buffered formalin.</li> <li>3. Flow studies requested – an additional biopsy specimen, minimum 1 cm, placed in RPMI with 10% FBS.</li> <li>4. Cytogenetics requested - an additional biopsy specimen, minimum 1 cm, placed in RPMI with 10% FBS.</li> <li>5. RPMI with 10% FBS can be obtained from HP Materials ext.35085. Store frozen. Thaw and bring to room temp before adding biopsy specimen.</li> <li>6. If only one biopsy specimen submitted to share between Flow and Cytogenetics, send biopsy to Flow. Flow will split specimen using sterile technique and forward specimen on to Cytogenetics</li> <li>7. Microbiology is requested - It is preferable to have physician obtain a separate biopsy. Immediately place biopsy into sterile saline provided by Microbiology.</li> <li>8. If physician is unable to collect additional biopsy specimens, ask the physician to prioritize which orders to perform.</li> </ol>		

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**Legacy Laboratory Client Services (503) 413-1234 Toll Free (877) 270-5566**

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Select "Flow Study" under Bone Marrow studies	BM FLOW	Central Lab Flow Cytometry 503-413-7358	BM Aspirate – Heparinized Syringe	EDTA Tube – 2 to 4 mL	Maintain tube at room temperature at all times	
Select "Chromosome Studies" under Bone Marrow studies	BM CYG	Central Lab Cytogenetics 503-413-4613	BM Aspirate – Heparinized Syringe	Sodium Heparin Tube - 2 to 4 mL	Maintain tube at room temperature at all times	Smaller sample volumes will be processed but may compromise testing. Contact Cytogenetics lab for sample volumes less than 1mL
Select "FISH Studies" under Bone Marrow studies Specify probes.	BM FISH	Central Lab Molecular FISH 503-413-7441	BM Aspirate – Heparinized Syringe	EDTA Tube Preferred – 2 to 4 mL	Maintain tube at room temperature at all times	If low volume of aspirate is collected, one EDTA tube may be shared between Flow Cytometry and FISH lab.
Blood Culture	C BL	Central Lab Microbiology 503-413-4084	BM Aspirate – Heparinized Syringe	One Green cap BacT Alert Bottle	Transfer largest amount of aspirate possible into media bottle, up to 5 mL	C BL and C FUN BL can be performed from same Green Cap BacT Alert Bottle
Fungal Blood Culture	C FUN BL					
AFB Blood Culture	C AFB BLD ARUP	Referrals Dept 503-413-5106	BM Aspirate – Heparinized Syringe	Minimum 1 mL into SPS Sterile Tube (yellow top)	Send to Central Lab Referrals Dept. Referrals will transport to ARUP	