

FLOW CYTOMETRY			
TEST DESCRIPTION	SPECIMEN TYPE	PRESERVATIVE	VOLUME
Leukemia/Lymphoma/MDS Screening Panel	Bone Marrow or Peripheral Blood	Sodium Heparin (Green Top) or EDTA (Lavender Top)	2-3 ml
T-LGL addon			
CLL addon	Fluid	N/A	2 ml
NHL addon			
AML/ALL addon	Fresh Tissue	RPMI	1-5 cm ³
Plasma Cell Malignancy			
High Sensitivity PNH	Peripheral Blood	EDTA	2 ml

HISTOLOGY				
TEST DESCRIPTION	SPECIMEN TYPE	PRESERVATIVE	VOLUME	
Smear Morphology - Bone Marrow	Aspirate Slides	N/A	5 Slides	
Smear Morphology - Peripheral Blood	Peripheral Blood	EDTA or Sodium Heparin	1 ml	
Special Stains: (Giemsa, Iron, PAS, Reticulin, Congo Red, Trichrome, AFB, GMS) Bone Marrow Workup: (H&E, Special Stains: Giemsa, Iron, PAS, Reticulin)	Core Biopsy Blood Clot FFPE Tissue (Paraffin Block)	Formalin	N/A	
Immunohistochemistry: ALK1, Annexin A1, BCL1(CCND1), BCL2, BCL6, BOB.1, Calretinin, CD10, CD103, CD117, CD138, CD14, CD15, CD19, CD20, CD71, CD1a, CD2, CD21, CD25, CD3, CD30, CD34, CD38, CD4, CD43, CD45(LCA), CD5, CD56, CD61, CD68, CD79a, CD8, CDX2, CK20, CK5/6, C-Myc, EBER, ECadherin, Fascin, Glycophorin A, IgA, IgG, IgM, ISH, Kappa ISH, Ki-67, Lambda ISH, Lysozyme, MCT(Tryptase), MPO, MUM1, Oct2, PAX-5, PCK(AE1/AE3), Vimentin, WT1	Core Biopsy Blood Clot FFPE Tissue (Paraffin Block)	Formalin	N/A	
	Positively charged slide	N/A	N/A	

NEXT GENERATION SEQUENCING (NGS)			
TEST DESCRIPTION	SPECIMEN TYPE	PRESERVATIVE	VOLUME
NGS Hematologic Malignancies Panel	Bone Marrow or Peripheral Blood	EDTA (Lavender Top)	1-2 ml

PANEL GENES								
ABL1	ANKRD26	ASXL1	ATRX	BCOR•	BCORL1•	BRAF	CALR	CBL
CBLB	CBLC	CDKN2A•	CEBPA•	CSF3R	CUX1	DDX41	DNMT3A•	ETNK1
ETV6•	EZH2•	FLT3	GATA1	GATA2•	GNAS	HRAS	IDH1	IDH2
IKZF1•	JAK2	JAK3	KDM6A•	KIT	KMT2A	KRAS	MPL	NF1
NPM1	NRAS	PDGFRA	PHF6•	PIGA•	PPMID	PTEN	PTPN11	RAD21•
RUNX1•	SETBP1	SF3B1	SMC1A	SMC3	SRSF2	STAG•	STAG1	TET2•
TP53•	U2AF1	WT1	ZRSR2•					

*AML or CLL only

• Full CDS coverage in gene indicated by

CYTOGENETICS-KARYOTYPING

TEST DESCRIPTION	SPECIMEN TYPE	PRESERVATIVE	VOLUME
Chromosome Analysis	Bone Marrow or Blood*	Sodium Heparin (Green Top)	2 ml

CYTOGENETICS-FISH

DISEASE STATE	PROBES	SPECIMEN TYPE	PRESERVATIVE	VOLUME
MDS	MECOM/RPN1, 5q, 7q, Cep8/D20S108, MLL, ETV6, RARA, 19	Bone Marrow or Peripheral Blood	Sodium Heparin (Green Top) or EDTA (Lavender Top)	2-3 ml
AML	RUNX1T1::RUNX1, PML::RARA, MLL, CBFB			
AML & MDS combined	RUNX1T1::RUNX1, MLL, PML::RARA, CBFB, 5q, 7q, Cep8/D20S108, MECOM/RPN1			
MPN, PV, ET, Eosinophilia, Neutropenia	PDGFRA, PDGFRB, FGFR1/Cep8, BCR::ABL, 19			
CML	BCR::ABL			
MPD	5q, 7q, Cep8/D20S108, BCR::ABL, ETV6, MLL			
Myeloma	1p36, p53/CEP9, CCND1::IGH, D13S319, MYC::IGH			
Extended Myeloma	FGFR3::IGH, IGH::MAF			
CLL	CCND1::IGH, ATM/p53, Cep12/13q34/13q14.3, MYC::IGH			
LPD, NHL, MZL, FL, MALT, Burkitt, NCL, DLBCL	BCL6, 7q, MYC::IGH, CCND1::IGH, BIRC3::MALT1, IGH::BCL2, MLL, p53/CEP9			
LPL	5q, MYB, CCND1::IGH, MYC::IGH, FGFR3::IGH, 1p36			
T-Cell Lymphoma & ALL	1p36, Cep8/D20S108, BCR::ABL, ETV6::RUNX1, MLL, IGH			
APL	PML::RARA			

MOLECULAR

TEST DESCRIPTION	SPECIMEN TYPE	PRESERVATIVE	VOLUME
IgVH	Bone Marrow or Peripheral Blood	EDTA (Lavender Top)	BM: 3 ml PB: 4 ml
B-Cell Gene Rearrangement			
Bloodhound™ BCR::ABL1 (p.190, p.203, p.210, p.230) w/ABL1 Reflex			
T-Cell Gene Rearrangement			
Bloodhound™ MPN Panel (JAK2 Exons 12-14, CALR, MPL)	Bone Marrow or Peripheral Blood	Sodium Heparin (Green Top) or EDTA (Lavender Top)	1-2 ml
Bloodhound™ Cytopenia Panel (ASXL1, WT1, DNMT3A (Exon 23), SF3B1)			
Bloodhound™ AML Panel (IDH1, IDH2, KIT, FLT3, NPM1, CEBPA)			
Bloodhound™ CLL Panel (SF3B1, CXCR4, MYD88, NOTCH1)			