

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 <sup>3</sup>
Plasma Cell Malignancy			
<b>High Sensitivity PNH</b>	<b>Peripheral Blood</b>	<b>EDTA</b>	<b>2 ml</b>

HISTOLOGY			
TEST DESCRIPTION	SPECIMEN TYPE	PRESERVATIVE	VOLUME
Smear Morphology	Aspirate Slides	N/A	5 Slides
<b>Special Stains:</b> (Giemsa, Iron, PAS, Reticulin, Congo Red, Trichrome, AFB, GMS) <b>Bone Marrow Workup:</b> (H&E, Special Stains: Giemsa, Iron, PAS, Reticulin)	Core Biopsy Blood Clot FFPE Tissue (Paraffin Block)	Formalin	N/A
<b>Immunohistochemistry:</b> 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	EVI1, 5q, 7q, ETV6, MLL, PML::RARA t(15;17), +19, Cep 8/MAFB	Bone Marrow or Peripheral Blood	Sodium Heparin (Green Top) or EDTA (Lavender Top)	2-3 ml
AML	RUNX1T1/RUNX1 t(8;21), PML/RARA t(15;17), MLL, CBFβ			
APL	PML/RARA t(15;17)			
CML	BCR/ABL t(9;22)			
Multiple Myeloma (MM)	1p36/1q21, Cep9/p53, CCND1::IGH t(11;14), 13q14.3/13q34, MYC::IGH			
CLL	CCND1::IGH t(11;14), +12, ATM/p53, 13q14.3/13q34, MYC::IGH			
MPN, PV, ET, Eosinophilia, Neutropenia	PDGFRA, PDGFRB, FGFR1, JAK2, BCR::ABL, 19			
AML & MDS	RUNX1T1::RUNX1, MLL, PML::RARA, CBFβ, 5q, 7q, Cep 8/MAFB, EVI1			
LPL	5q, MYB (6q), CCND1::IGH t(11;14), MYC::IGH t(8;14), FGFR3::IGH t(4;14)			
LPD, NHL, MZL, FL, MALT, Burkitt, NCL	BCL6, 7q, MYC::IGH, CCND1::IGH, BIRC3::MALT1, IGH::BCL2, MLL			
T-Cell Lymphoma	1p36/1q21, BCR::ABL t(9;22), Cep8/MAFB, ETV6::RUNX1 t(12;21)			
ALL	1p36::1q21, BCR::ABL t(9;22), MLL, ETV6::RUNX1 t(12;21), IGH rearrangement			
Extended Myeloma	FGFR3::IGH, IGH::MAF			

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
HemeScreen® Cytopenia Panel (ASXL1, WT1, DNMT3A (Exon 23), SF3B1)			
HemeScreen® AML Panel (IDH1, IDH2, KIT, FLT3, NPM1, CEBPA)			
HemeScreen® for CLL (SF3B1, CXCR4, MYD88, NOTCH1)			