Please complete, print and submit. Reset Form

MAYO CLINIC
Mayo Medical Laboratories

Hematopathology/Cytogenetics Test Request Form

MML Internal Use Only

Client Information (required)

Client Name	Client ID	Client Phone	Client Order No.

Address	City	State	Zip Code

Patient Information (required)

Patient ID *(Medical Record No.)*	Patient Name *(Last, First, Middle)*		
Gender ☐ Male ☐ Female	Birth Date *(Month, DD, YYYY)*	Collection Date *(Month, DD, YYYY)*	Time ☐ a.m. ☐ p.m.

Submitting Physician/ Physician Name Information (required)

Submitting/Referring Physician *(Last, First)*	**Fill in only if Call Back is required.** Phone ( ) _____ – _____ Fax * ( ) _____ – _____

**Fax number given must be from a fax machine that complies with applicable HIPAA regulation.*

Reason for Referral (required; include pathology case number, if appropriate)

	ICD-10 Diagnosis Code

Note: it is the client's responsibility to maintain documentation of the order.

New York State Patients: Informed Consent for Genetic Testing

"I hereby confirm that informed consent has been signed by an individual legally authorized to do so and is on file with this office or the individual's provider's office." Signature _____ Signature Required _____ (Note: Test requests without a signature will not be performed.)

Specimens Provided

☒	Blood	☐	DNA	☐	Paraffin block, No. sent: _____ Indicate source: _____
☒	Bone Marrow	☒	Lymph Node	☐	Slides, No. sent: _____
☐	Fixed Cells	☐	Spleen	☐	Tissue, No. sent: _____ ☐ Frozen ☐ Fixed Formalin ☐ Wet Tissue ☐ Other Fixative, type _____
☐	Cultured Cells	☐		☐	Other, Anatomic site: _____

Pathologist's Name	Direct Phone Number	Fax Number

Pathology/Clinical Diagnosis (Please include a brief history, pertinent laboratory results, suspected diagnosis, and reason for referral.)	CBC results: HB _____ MCV _____ HCT _____ VBC _____ RBC _____ PLT _____

Ship specimens to:
Mayo Medical Laboratories
3050 Superior Drive NW
Rochester, MN 55901

Customer Service: 855-516-8404

Billing Information
- An itemized invoice will be sent each month.
- Payment terms are net 30 days.

Call the Business Office with billing related questions:
800-447-6424 (US and Canada)
507-266-5490 (outside the US)

Visit www.MayoMedicalLaboratories.com for the most up-to-date test and shipping information.

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Hematopathology Consultation †	
70012	Pathology Consultation*
70016	Hematopathology Consultation, Wet Tissue*
Hematologic Disorders Hold Testing	
HOLDC	Hematologic Disorders, Chromosome Hold, Bone Marrow or Peripheral Blood
HOLDF	Hematologic Disorders, Fluorescence In Situ Hybridization (FISH) Hold, Bone Marrow or Peripheral Blood
HLLFH	Hematologic Disorders, Leukemia/ Lymphoma; Flow Hold Varies*
EXHBM	Hematologic Disorders, DNA/RNA Extract and Hold, Bone Marrow
EXHB	Hematologic Disorders, DNA/RNA Extract and Hold, Blood
Flow Cytometry	
LCMS	Leukemia/Lymphoma Immunophenotyping by Flow Cytometry*
LLPT	Leukemia/Lymphoma Immunophenotyping by Flow Cytometry, Tissue
LLTOF	Leukemia and Lymphoma Phenotyping, Technical Only
MYEFL	Myelodysplastic Syndrome by Flow Cytometry, Bone Marrow
PLINK	PNH, PI-Linked Antigen, Blood
TAE	Therapeutic Antibody by Flow Cytometry
Indicate antibody:	
☒ CD20 ☒ CD49d ☐ CD52	
Chromosome Analysis	
CHRBM	Chromosome Analysis, Hematologic Disorders, Bone Marrow
CHRHB	Chromosome Analysis, Hematologic Disorders, Blood
CHRLN	Chromosome Analysis, Lymphoid Tissue
CHRBF	Chromosome Analysis, Body Fluid
BLOOM	Chromosome Analysis, Sister Chromatid Exchange (SCE) for Bloom Syndrome, Blood
CRAT	Chromosome Analysis, Rearrangement in Ataxia Telangiectasia, Blood
Next Generation Sequencing	
NGSHM	OncoHeme Next Generation Sequencing (NGS) for Hematologic Cancer
Chromosomal Microarray	
CMAH	Chromosomal Microarray, Hematologic Disorders

ACUTE MYELOID LEUKEMIA (AML)/MYELODYSPLASTIC SYNDROME (MDS)

Acute Myeloid Leukemia (AML)	
PMLR	*PML/RARA* Quantitative, PCR
CEBPA	*CEBPA* Mutations, Gene Sequencing
FFTAS	FLT3 ITD and TKD Mutation Assay
NPM1	Nucleophosmin (*NPM1*) Mutation Analysis

AMLF	Acute Myeloid Leukemia (AML), FISH
Probe Loci	*Chromosome Abnormalities*
RUNX1T1/RUNX1	t(8;21)(q22;q22)
reflex: MECOM/RUNX1	t(3;21)(q26.2;q22)
PML/RARA	t(15;17)(q24.1;q21.2)
MYH11/CBFB	inv(16)(p13q22) or t(16;16)
DEK/NUP214	t(6;9)(p23;q34)
KAT6A/CREBBP	t(8;16)(p11.2;p13.3)
MLL BAP	11q23 rearrangement
reflex: AFF1/MLL	t(4;11)(q21;q23)
reflex: MLLT4/MLL	t(6;11)(q27;q23)
reflex: MLLT3/MLL	t(9;11)(p22;q23)
reflex: MLLT10/MLL	t(10;11)(p13;q23)
reflex: MLL/CREBBP	t(11;16)(q23;p13.3)
reflex: MLL/MLLT1	t(11;19)(q23;p13.3)
reflex: MLL/ELL	t(11;19)(q23;p13.1)
BCR/ABL1	t(9;22)(q34;q11.2)
MLF1/NPM1	t(3;5)(q25;q34)
RBM15/MKL1	t(1;22)(p13.3;q13.1)
RPN1/MECOM	inv(3)(q21.3q26.2) or t(3;3)
reflex: PRDM16/RPN1	t(1;3)(p36.3;q21.3)
reflex: MECOM/RUNX1	t(3;21)(q26.2;q22)
D5S630/EGR1	-5/5q deletion
D7Z1/D7S486	-7/7q deletion
D8Z2/MYC	+8
D13S319/LAMP1	13q deletion
TP53/D17Z1	-17/17p deletion
D20S108/20qter	20q deletion/ider(20q)
Perform entire panel	

Myelodysplasia (MDS)	
MYEFL	Myelodysplastic Syndrome by Flow Cytometry, Bone Marrow
PLINK	PNH, PI-Linked Antigen, Blood

MDSF	Myelodysplastic Syndrome (MDS), FISH
Probe Loci	*Chromosome Abnormalities*
RPN1/MECOM	inv(3) or t(3;3)
reflex: MECOM/RUNX1	t(3;21)(q26.2;q22)
reflex: PRDM16/RPN1	t(1;3)(p36.3;q21.3)
D5S630/EGR1	-5/5q deletion
D7Z1/D7S486	-7/7q deletion
D8Z2/MYC	+8
D13S319/LAMP1	13q deletion
TP53/D17Z1	-17/17p deletion
D20S108/20qter	20q deletion/ider(20q)
MLL BAP	11q23 rearrangement
reflex: AFF1/MLL	t(4;11)(q21;q23)
reflex: MLLT4/MLL	t(6;11)(q27;q23)
reflex: MLLT3/MLL	t(9;11)(p22;q23)
reflex: MLLT10/MLL	t(10;11)(p13;q23)
reflex: MLL/CREBBP	t(11;16)(q23;p13.3)
reflex: MLL/MLLT1	t(11;19)(q23;p13.3)
reflex: MLL/ELL	t(11;19)(q23;p13.1)
Perform entire panel	

	MSTF	Myeloid Sarcoma, FISH, Tissue
	Probe Loci	*Chromosome Abnormalities*
×	RUNX1T1/RUNX1	t(8;21)(q22;q22)
×	BCR/ABL1	t(9;22)(q34;q11.2)
×	MLL BAP	11q23 rearrangement
	PML/RARA	t(15;17)(q24.1;q21.2)
	MYH11/CBFB	inv(16)(p13q22) or t(16;16)

	IMRGF	Imatinib Mesylate Responsive Genes, FISH
	Probe Loci	*Chromosome Abnormalities*
	ABL2 BAP	1q25 rearrangement
	FIP1L1/CHIC2/PDGFRA	4q12 deletion/rearrangement
	PDGFRB BAP	5q33 rearrangement
	ABL1 BAP	9q34 rearrangement
	Perform entire panel	

MYELOPROLIFERATIVE NEOPLASM (MPN)

BCR/ABL testing	
BADX	BCR/ABL, mRNA Detection, RT-PCR, Qual, Diagnostic Assay*
BCRAB	BCR/ABL, p210, mRNA RT-PCR, Quant, Monitoring Chronic Myelogenous Leukemia (CML)
BA190	BCR/ABL, p190, mRNA Detection, RT-PCR, Quant, Monitoring Assay
BAKDM	BCR/ABL, Tyrosine Kinase Inhibitor Resistance, Kinase Domain Mutation Screen
922F	BCR/ABL1 Translocation (9;22), FISH
JAK2-CALR-MPL-JAK2V671F testing	
MPNR	Myeloproliferative Neoplasm (MPN), JAK2 V617F with reflex to CALR and MPL
JAK2B	JAK2 V617F Mutation Detection, Blood*
JAK2M	JAK2 V617F Mutation Detection, Bone Marrow*
JAK2V	JAK2 V617F Mutation Detection, Varies
CALR	CALR Mutation Analysis, Myeloproliferative Neoplasm (MPN)*
MPLB	MPL Exon 10 Mutation Detection, Blood*
MPLM	MPL Exon 10 Mutation Detection, Bone Marrow*
MPLVA	MPL Exon 10 Mutation Detection, Varies
JAKXB	JAK2 Exon 12 and Other Non-V617F Mutation Detection, Blood*
JAKXM	JAK2 Exon 12 and Other Non-V617F Mutation Detection, BM*

CHICF	CHIC2 (4q12) Deletion (FIP1L1 and PDGFRA Fusion), FISH
512F	PDGFRB/TEL Translocation (5;12) for Chronic Myelomonocytic Leukemia (CMML), FISH
FGFRF	FGFR1 (8p11.2) Rearrangement, FISH

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	IMRGF	Imatinib Mesylate Responsive Genes, FISH
	Probe Loci	*Chromosome Abnormalities*
	ABL2 BAP	1q25 rearrangement
	FIP1L1/CHIC2/PDGFRA	4q12 deletion/rearrangement
	PDGFRB BAP	5q33 rearrangement
	ABL1 BAP	9q34 rearrangement
	Perform entire panel	

KIT Mutation testing		
	KITB	KIT Asp816Val Mutation Analysis, Blood
	KITBM	KIT Asp816Val Mutation Analysis, Qualitative PCR, Bone Marrow
	KITAS	KIT Asp816Val Mutation Analysis, Qualitative PCR

	TCGR	T-Cell Receptor Gene Rearrangement, PCR, Blood
	TCGBM	T-Cell Receptor Gene Rearrangement, PCR, Bone Marrow*
	TCGRV	T-Cell Receptor Gene Rearrangement, PCR, Varies

	MUR	Lysozyme (Muramidase), Plasma

LYMPHOID DISORDERS

B-Cell		
	ALLM	B-ALL Monitoring, MRD Detection, Bone Marrow
	BCGR	Immunoglobulin Gene Rearrangement, Blood
	BCGBM	Immunoglobulin Gene Rearrangement, Bone Marrow
	BCGRV	Immunoglobulin Gene Rearrangement, Varies
	MYD88	MYD88, L265P, Somatic Gene Mutation, DNA Allele-Specific PCR
	VISCS	Viscosity, Serum

	BALLF	B-Cell Acute Lymphoblastic Leukemia (B-ALL), FISH
	Probe Loci	*Chromosome Abnormalities*
	PBX1/TCF3	t(1;19)(q23;p13.3)
	ETV6/RUNX1	t(12;21)(p13;q22)
	BCR/ABL1	t(9;22) (q34;q11.2)
	MLL BAP	11q23 rearrangement
	reflex: AFF1/MLL	t(4;11)(q21;q23)
	reflex: MLLT4/MLL	t(6;11)(q27;q23)
	reflex: MLLT3/MLL	t(9;11)(p22;q23)
	reflex: MLLT10/MLL	t(10;11)(p13;q23)
	reflex: MLL/MLLT1	t(11;19)(q23;p13.3)
	reflex: MLL/ELL	t(11;19)(q23;p13.1)
	CDKN2A/D9Z1	-9/9p deletion or +9
	D4Z1/D10Z1/D17Z1	+4,+10,+17, hyper-or hypodiploidy
	TP53/D17Z1	-17/17p deletion
	IGH BAP	14q32 rearrangement
	reflex: CRLF2/IGH	t(X;14) or t(Y;14)
	Perform entire panel	

	BLPF	B-Cell Lymphoma, FISH, Blood or Bone Marrow
	BLYMF	B-Cell Lymphoma, FISH, Tissue
	Probe Loci	*Chromosome Abnormalities*
	Burkitt (pediatric)	
	MYC BAP	8q24.1 rearrangement
	IGK/MYC	t(2;8)(p12;q24.1)
	MYC/IGH	t(8;14)(q24.1;q32)
	MYC/IGL	t(8;22)(q24.1;q11.2)
	BCL6 BAP	3q27 rearrangement
	BCL2 BAP	18q21 rearrangement
	Perform entire panel	
	Diffuse large B-cell, Burkitt-like "double-hit"	
	MYC BAP	8q24.1 rearrangement
	IGK/MYC	Reflex: t(2;8)(p12;q24.1)
	MYC/IGH	Reflex: t(8;14)(q24.1;q32)
	MYC/IGL	Reflex: t(8;22)(q24.1;q11.2)
	BCL6 BAP	Reflex: 3q27 rearrangement
	BCL2 BAP	Reflex: 18q21 rearrangement
	Perform entire panel	
	Follicular	
	BCL2 BAP	18q21 rearrangement
	BCL6 BAP	3q27 rearrangement
	Perform entire panel	
	Mantle cell	
	CCND1/IGH	t(11;14)(q13;q32)
	CCND1 BAP	Reflex: 11q13 rearrangement
	TP53/D17Z1	**Blastoid subtype only:** deletion of 17p
	MYC BAP	**Blastoid subtype only:** 8q24.1 rearrangement
	Perform entire panel	
	Mucosa-associated lymphoid tissue (MALT)	
	MALT1 BAP	18q21 rearrangement
	Splenic marginal zone	
	D7Z1/7q32	Deletion of 7q
	TP53/D17Z1	Deletion of 17p
	Perform entire panel	

CLL		
	CLLM	CLL Monitoring, MRD Detection, Blood
	PCLLM	CLL Monitoring, MRD Detection, Bone Marrow
	BCLL	IGH for B-Cell Chronic Lymphocytic Leukemia (B-CLL), Somatic Hypermutation Analysis
	ZAP70	ZAP-70, Chronic Lymphocytic Leukemia (CLL) Prognosis
	P53CA	Hematologic Neoplasms, TP53 Somatic Mutation, DNA Sequencing Exons 4-9

	CLLF	Chronic Lymphocytic Leukemia (CLL), FISH
	SLLF	Small Lymphocytic Lymphoma, FISH, Tissue
	Probe Loci	*Chromosome Abnormalities*
	D6Z1/MYB	-6/6q deletion
	D11Z1/ATM	-11/11q deletion
	D12Z3/MDM2	+12
	D13S319/LAMP1	-13/13q deletion
	TP53/D17Z1	-17/17p deletion
	CCND1/IGH	t(11;14)(q13;q32)
	reflex: IGH/BCL2	t(14;18)(q32;q21)
	reflex: IGH/BCL3	t(14;19)(q32;q13)
	Perform entire panel	

	IRF4F	Cutaneous Anaplastic Large Cell Lymphoma, 6p25.3 (DUSP22 or IRF4) Rearrangement, FISH, Tissue

T-Cell		
	TCGR	T-Cell Receptor Gene Rearrangement, PCR, Blood
	TCGBM	T-Cell Receptor Gene Rearrangement, PCR, Bone Marrow*
	TCGRV	T-Cell Receptor Gene Rearrangement, PCR, Varies

	TP63F	Peripheral T-Cell Lymphoma (PTCL), TP63 (3q28) Rearrangement, FISH, Tissue

	TALLF	T-Cell Acute Lymphoblastic Leukemia (T-ALL), FISH
	Probe Loci	*Chromosome Abnormalities*
	BCR/ABL1	t(9;22) and ABL1 amplification
	MLL BAP	11q23 rearrangement
	reflex: AFF1/MLL	t(4;11)(q21;q23)
	reflex: MLLT4/MLL	t(6;11)(q27;q23)
	reflex: MLLT3/MLL	t(9;11)(p22;q23)
	reflex: MLLT10/MLL	t(10;11)(p13;q23)
	reflex: MLL/MLLT1	t(11;19)(q23;p13.3)
	reflex: MLL/ELL	t(11;19)(q23;p13.1)
	CDKN2A/D9Z1	-9/9p deletion or +9
	STIL/TAL1	1p32 rearrangement
	TLX3/BCL11B	t(5;14)(q35;q32)
	TRB BAP	7q34 rearrangement
	reflex: MYB/TRB	t(6;7)(q23;q34)
	reflex: TRB/TLX1	t(7;10)(q34;q24)
	reflex: TRB/LMO1	t(7;11)(q34;p15)
	reflex: TRB/LMO2	t(7;11)(q34;p13)
	MLLT10/PICALM	t(10;11)(p12;q14)
	TRAD BAP	14q11.2 rearrangement
	reflex: MYC/TRAD	t(8;14)(q24.1;q11.2)
	reflex: TLX1/TRAD	t(10;14)(q24;q11.2)
	reflex: LMO1/TRAD	t(11;14)(p15;q11.2)
	reflex: LMO2/TRAD	t(11;14)(p13;q11.2)
	Perform entire panel	

Patient Information (required)

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	TLPF	T-Cell Lymphoma, FISH, Blood or Bone Marrow
	TLYMF	T-Cell Lymphoma, FISH, Tissue
	Probe Loci	*Chromosome Abnormalities*
	TCL1A BAP	14q32 rearrangement
	D7Z1/D7S486 and D8Z2/MYC	-7/iso(7q) and +8
	ALK BAP (tissue only)	2p23 rearrangement

MYELOMA, AMYLOIDOSIS & DYSPROTEINEMIA

Amyloid		
	FABP	Amyloid Beta-Protein
	82091	Amyloid Protein Identification, Paraffin, LC-MS/MS
	ATTRZ	TTR Gene, Full Gene Analysis
	FMTT	Familial Mutation, Targeted Testing
	TTRX	Amyloidosis, Transthyretin-Associated Familial, Reflex, Blood
	8973	Congo Red Stain
	9273	Subcutaneous Fat Aspirate

Myeloma		
	MSMAR	Mayo Stratification for Myeloma and Risk-Adapted Therapy Report
	PBLI	Plasma Cell Assessment, Blood
	PCPRO	Plasma Cell DNA Content and Proliferation, Bone Marrow

	PCPDF	Plasma Cell Proliferative Disorder (PCPD), FISH
	MFCF	Myeloma, FISH, Fixed Cells (fixed cell pellet only)
	PLASF	Plasma Cell Proliferative Disorder, FISH, Tissue
	Perform entire panel	
	Probe Loci	*Chromosome Abnormalities*
	CCND1/IGH	t(11;14)(q13;q32)/+11
	IGH BAP	14q32 rearrangement
	reflex: IGH/MAF	t(14;16)(q32;q23)
	reflex: IGH/MAFB	t(14;20)(q32;q12)
	reflex: FGFR3/IGH	t(4;14)(p16.3;q32)
	reflex: CCND3/IGH	t(6;14)(p21;q32)
	RB1/LAMP1	-13/13q deletion
	D3Z1/D7Z1	+3 and +7
	D9Z1/D15Z4	+9 and +15
	TP53/D17Z1	-17/17p deletion/+17
	TP73/CKS1B	1q21 gain
	MYC BAP	8q24 rearrangement

BONE MARROW TRANSPLANT

	ALLM	B-ALL Monitoring, MRD Detection, Bone Marrow
	CHEP	Chimerism-Recipient Engraftment (Post)
	CHRGB	Chimerism-Recipient Germline (Pre)
	CLLM	CLL Monitoring, MRD Detection, Blood
	PCLLM	CLL Monitoring, MRD Detection, Bone Marrow
	DISI	HLA Class I Molecular Typing Disease Association
	DIS2	HLA Class II Molecular Typing Disease Association

	NKCP	Natural Killer (NK) Cytotoxicity Profile
	BMTF	XX/XY in Opposite Sex Bone Marrow Transplantation, FISH

ADDITIONAL TESTS (Indicate Test ID and Name)

BAP= break apart probes

*Algorithms are available online for these tests. Visit www.MayoMedicalLaboratories.com

† It is essential that the pathology/diagnostic report, brief history, and physician name and number are provided.

Patient information sheets are recommended-refer to the test catalog at www.mayomedicallaboratories.com

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