



# SOLID TUMOR AND HEMATOPATHOLOGY TESTING

## SOLID TUMOR TESTING

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## HEMATOPATHOLOGY TESTING

LYMPHOMA

PLASMA CELL DISORDERS/  
MULTIPLE MYELOMA

ACUTE LEUKEMIA/  
MYELODYSPLASTIC  
SYNDROME

MYELOPROLIFERATIVE  
NEOPLASMS



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# SOLID TUMOR & HEMATOPATHOLOGY TESTING

**SPECIMEN TYPES:** **T** - NON-FIXED TISSUE **FFPE** - TISSUE FFPE **PB** - PERIPHERAL BLOOD **BM** - BONE MARROW

SOLID TUMOR TESTING							
METHOD	TEST	DISEASE	CLINICAL UTILITY	SPECIMEN TYPE			TAT DAYS
Molecular	KRAS mutation	Colorectal carcinoma	Guide use of anti-EGFR therapy			FFPE	7-14
Molecular	BRAF mutation	Colorectal carcinoma; Melanoma; Papillary Thyroid carcinoma; other neoplasms	Guide use of anti-EGFR therapy; identification of therapeutic target in melanoma; assist in the diagnosis of papillary thyroid carcinoma; further assessment for Lynch Syndrome in microsatellite unstable tumors.			FFPE	7-14
Molecular	BRAF reflex to KIT mutation analysis	Melanoma	Guide therapy			FFPE	7-14
Molecular	Microsatellite instability	Colorectal carcinoma and other neoplasms	Assess for Lynch Syndrome and guide therapy			FFPE	4-14
Molecular	MLH1 promoter methylation	Colorectal carcinoma and other neoplasms	Further assessment for Lynch Syndrome in microsatellite unstable tumors			FFPE	7-14
Molecular/FISH	Lung Cancer Panel (EGFR, BRAF, KRAS, ERBB2 by Molecular) (ALK, ROS1, RET, MET by FISH) can be ordered as a panel or separately	Non-small Cell Lung Carcinoma	Guides choice and timing of targeted therapy in non-small cell lung carcinoma			FFPE	7-14
Molecular	MGMT promoter methylation	Glioblastoma	Guide use of alkylating agents such as temozolomide			FFPE	7-14
Molecular	KIT reflex to PDGFRA mutation analysis	Gastrointestinal Stromal Tumor (GIST)	Guide therapy			FFPE	7-14
Molecular	IDH1 and IDH2 mutation	Glioma	Diagnosis			FFPE	7-14
Molecular	Molecular Targeted Cancer 50 Gene Panel by NGS	Oncology	Identification of mutations for purposes of prognosis and selection of targeted therapy	PB	BM	FFPE	14-21
Molecular	Colorectal Cancer Mutation Panel (KRAS, NRAS, BRAF, PIK3CA)	Colorectal Cancer	Extended RAS mutation analysis to guide anti-EGFR monoclonal antibody therapy selection			FFPE	7-14
FISH	UroVysion™	Urothelial carcinoma	Diagnosis and monitoring			urine	3-12
FISH	HER2 (ERBB2) amplification	Breast and Gastric carcinoma	Guide use of Herceptin®			FFPE	3-7
FISH	22q12 (EWSR1) rearrangement	Ewing sarcoma, other sarcomas	Diagnosis			FFPE	3-7
FISH	1p/19q deletion	Oligodendroglioma	Diagnosis and prediction of response to therapy			FFPE	3-7
FISH	EGFR amplification	Glioblastoma	Diagnosis			FFPE	3-7
FISH	MDM2	Sarcoma	Diagnosis			FFPE	3-7
Cytogenetics	Conventional karyotype	Various Neoplasms	Diagnosis	PB	BM	T	5-10

HEMATOPATHOLOGY TESTING: MYELOPROLIFERATIVE NEOPLASMS							
METHOD	TEST	DISEASE	CLINICAL UTILITY	SPECIMEN TYPE			TAT DAYS
Flow	Screening panel (monoclonality, blasts)	Suspected hematologic neoplasm	B cells, T cells or immature cells	PB	BM		1
Cytogenetics	Conventional karyotype	Myeloproliferative Neoplasms	Diagnosis	PB	BM	T	5-8
FISH	t(9;22) BCR-ABL1	Chronic Myelogenous Leukemia	Diagnosis	PB	BM		1-5
FISH	4q12 deletion, FIP1L1-PDGFR fusion (CHIC2 deletion)	Eosinophilia	Diagnosis	PB	BM		1-5
Molecular	BCR-ABL1 quantitative RT-PCR	Chronic Myelogenous Leukemia	Diagnosis and monitoring of therapeutic response	PB	BM		2-7
Molecular	JAK2 V617F mutation	Polycythemia Vera, Primary Myelofibrosis, Essential Thrombocythemia	Diagnosis	PB	BM		2-7
Molecular	JAK2 exon 12 mutation	Polycythemia Vera	Diagnosis	PB	BM		2-7
Molecular	Calreticulin (CALR) mutation analysis	Myeloproliferative neoplasms	Diagnosis and prognosis in essential thrombocythemia and primary myelofibrosis	PB			2-8
Molecular	MPL mutation analysis	Myeloproliferative neoplasms	Diagnosis in essential thrombocythemia and primary myelofibrosis	PB			2-8
Molecular	KIT mutation	Mastocytosis	Diagnosis and guide treatment	PB	BM	FFPE	7-14
Molecular	Myeloid Gene Panel by Next Generation Sequencing	Myeloproliferative neoplasms	Diagnosis and prognosis	PB	BM		14-21

HEMATOPATHOLOGY TESTING: PLASMA CELL DISORDERS/MULTIPLE MYELOMA							
METHOD	TEST	DISEASE	CLINICAL UTILITY	SPECIMEN TYPE			TAT DAYS
Flow	Plasma cell panel	Plasma Cell Myeloma, Monoclonal Gammopathy of Undetermined Significance	Diagnosis	PB	BM	T	1
FISH	Plasma cell myeloma panel	Plasma Cell Myeloma	Prognosis	PB	BM	T	3-5
Cytogenetics	Conventional karyotype	Plasma Cell Myeloma	Prognosis	PB	BM	T	5-8

HEMATOPATHOLOGY TESTING: <b>ACUTE LEUKEMIA/MYELODYSPLASTIC SYNDROME</b>									
METHOD	TEST	DISEASE	CLINICAL UTILITY	SPECIMEN TYPE				TAT DAYS	
Flow	Acute leukemia panel	Acute Leukemia	Diagnosis	PB	BM	T		1	
Flow	Screening panel (monoclonality, blasts)	Suspected hematologic neoplasm	Initial evaluation to identify abnormal B cells, T cells or immature cells	PB	BM	T		1	
Cytogenetics	Conventional karyotype	Acute Leukemia, Myelodysplastic Syndrome (MDS), Myeloproliferative Neoplasm (MPN), MDS/MPN	Diagnosis and prognosis	PB	BM	T		6	
FISH	t(9;22) BCR-ABL1	Acute Myeloid Leukemia, B and T Lymphoblastic Leukemia	Diagnosis and prognosis	PB	BM	T		1-5	
FISH	inv(16)/t(16;16) CBFβ-MYH11	Acute Myeloid Leukemia	Diagnosis and prognosis	PB	BM	T		1-5	
FISH	Centromeric probes 4, 10 and 17	B Lymphoblastic Leukemia	Diagnosis and monitoring of therapeutic response	PB	BM	T		1-5	
FISH	t(12;21) ETV6-RUNX1 (TEL-AML1)	B Lymphoblastic Leukemia	Diagnosis and prognosis	PB	BM	T		1-5	
FISH	MLL 11q23	Acute Leukemia	Diagnosis and prognosis	PB	BM	T		1-5	
FISH	Myelodysplastic Syndrome panel (5/5q, 7/7q, 8, 20q)	Myelodysplastic Syndrome	Diagnosis and prognosis	PB	BM	T		1-5	
FISH	t(15;17) PML-RARα	Acute Promyelocytic Leukemia	Diagnosis and prognosis	PB	BM	T		1-5	
FISH	t(8;21) RUNX1-RUNX1T1 (AML1-ETO)	Acute Myeloid Leukemia	Diagnosis and prognosis	PB	BM	T		1-5	
Molecular	BCR-ABL1 quantitative RT-PCR	Acute Leukemia	Diagnosis and monitoring of therapeutic response	PB	BM			2-7	
Molecular	PML-RARA quantitative RT-PCR	Acute Promyelocytic Leukemia	Diagnosis, monitoring of therapeutic response, and early detection of relapse	PB	BM			2-7	
Molecular	KIT mutation	Acute Myeloid Leukemia	Prognosis and guide treatment in AML with t(8;21), inv(16), t(16;16)	PB	BM			7-14	
Molecular	IDH1 and IDH2 mutation	Acute Myeloid Leukemia	Prognosis				FFPE	7-14	
Molecular	FLT3 & NPM1 with reflex to CEBPA	Acute Myeloid Leukemia	Prognosis	PB	BM			2-7	
Molecular	CEBPA mutation analysis	Acute myeloid leukemia	Prognosis	PB	BM			7-14	
Molecular	Myeloid Gene Panel by Next Generation Sequencing	Acute myeloid leukemia, myelodysplastic syndrome	Diagnosis, prognosis and guide treatment	PB	BM			14-21	
Molecular	BCR-ABL1-like (Ph-like) gene expression pattern by low density array	B-lymphoblastic leukemia	Diagnosis and prognosis	PB	BM			3-7	
FISH	BCR-ABL1-like (Ph-like) FISH panel	B-lymphoblastic leukemia	Diagnosis and prognosis	PB	BM			1-5	

**HEMATOPATHOLOGY TESTING: LYMPHOMA**

METHOD	TEST	DISEASE	CLINICAL UTILITY	SPECIMEN TYPE				TAT DAYS
Flow	B-cell lymphoma/Chronic Lymphocytic Leukemia panel with CD38	B-cell Lymphoma/Chronic Lymphocytic Leukemia	Diagnosis and prognosis	PB	BM	T		1
Flow	Screening panel (monoclonality, blasts)	Suspected hematologic neoplasm	Initial evaluation to identify abnormal B cells, T cells or immature cells	PB	BM	T		1
Flow	Sezary panel	Sezary Syndrome	Diagnosis	PB	BM	T		1
Flow	T-cell lymphoma panel	T-cell Lymphoma/Leukemia	Diagnosis	PB	BM	T		1
Flow	T-LGL panel	Large granular lymphocytosis	Diagnosis	PB	BM	T		1
Cytogenetics	Conventional karyotype	Lymphoma (multiple subtypes)	Diagnosis	PB	BM	T		5-10
FISH	t(8;14) MYC-IGH	Burkitt Lymphoma, other high grade B-cell lymphoma	Diagnosis	PB	BM	biopsy tissue	FFPE*	1-5
FISH	Chronic Lymphocytic Leukemia panel (17p13, 13q,+12, 11q22)	Chronic Lymphocytic Leukemia	Prognosis	PB	BM			
FISH	t(14;18), IGH-BCL2	Follicular Lymphoma, Diffuse Large B-cell Lymphoma, other high grade B-cell lymphoma	Diagnosis	PB	BM		FFPE*	1-5
FISH	t(11;14), CCND1-IGH	Mantle Cell Lymphoma	Diagnosis	PB	BM		FFPE*	1-5
FISH	BCL6 rearrangement	Lymphoma (multiple subtypes)	Diagnosis	PB	BM		FFPE*	1-5
FISH	ALK rearrangement (NPM1-ALK)	Anaplastic Large Cell Lymphoma	Diagnosis	PB	BM		FFPE*	1-5
FISH	Double hit lymphoma panel (MYC, BCL-2, and BCL-6 break-apart)	Aggressive B-cell lymphoma	Diagnosis and Prognosis	PB	BM		FFPE*	1-5
Molecular	B-cell clonality (IGH)	B-cell lineage lymphoma and leukemia	Diagnosis	PB	BM	T	FFPE*	2-8
Molecular	IgHV somatic hypermutation	Chronic Lymphocytic Leukemia	Prognosis	PB	BM	T	FFPE*	4-14
Molecular	T-cell receptor clonality (TRG)	T-cell lineage lymphoma and leukemia	Diagnosis	PB	BM	T	FFPE*	2-8
Molecular	BCR-ABL1-like (Ph-like) gene expression pattern by low density array	B-lymphoblastic leukemia	Diagnosis and prognosis	PB	BM			3-7
FISH	BCR-ABL1-like (Ph-like) FISH panel	B-lymphoblastic leukemia	Diagnosis and prognosis	PB	BM			1-5
Molecular	BRAF mutation	Hairy cell leukemia, Langerhans cell histiocytosis	Guide therapy	PB	BM			7-14

## ABOUT TRICORE

TriCore Reference Laboratories is an independent, not-for-profit medical reference laboratory helping healthcare professionals provide more effective care for their patients. Our services include more than 2,700 tests from the routine to the complex, as well as analysis, interpretation and consultation. TriCore's team of more than 50 pathologists and medical scientists provides physicians and patients with the highest possible quality of personalized care and laboratory information.



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