

Molecular Oncology



molecular oncology services

PATIENTS.ANSWERS.RESULTS.



JUNE 2019

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ARUP LABORATORIES

As a nonprofit, academic institution of the University of Utah and its Department of Pathology, ARUP believes in collaborating, sharing knowledge, and contributing to laboratory science in ways that benefit our clients and their patients.

Our test menu is one of the broadest in the industry, encompassing more than 3,000 tests, including highly specialized and esoteric assays. We offer comprehensive testing in the areas of genetics, molecular oncology, pediatrics, and pain management, among others.

ARUP's clients include many of the nation's university teaching hospitals and children's hospitals, as well as multihospital groups, major commercial laboratories, and group purchasing organizations. We do not compete with our clients for physician office business, choosing instead to support clients' existing test menus by offering highly complex assays and accompanying consultative support so clients can provide exceptional patient care in their local communities.

Offering analytics, consulting, and decision support services, ARUP provides clients with the utilization management tools necessary to prosper in this time of value-based care. Our UM+ program helps clients control utilization, reduce costs, and improve patient care. In addition, ARUP is a worldwide leader in innovative laboratory research and development, led by the efforts of the ARUP Institute for Clinical and Experimental Pathology[®].

ARUP's reputation for quality is supported by our ability to meet or exceed the requirements of multiple regulatory and accrediting agencies and organizations. ARUP participates in the CAP laboratory accreditation program and has CLIA certification through the Centers of Medicare and Medicaid Services. In December 2016, ARUP earned accreditation to the ISO 15189:2012 standard under CAP.

We believe in collaborating, sharing knowledge, and contributing to laboratory science in ways that provide the best value for the patient. Together, ARUP and its clients will improve patient care today and in the future.



patients. answers. results.

A laboratory test is more than a number; it is a person, an answer, a diagnosis.



ARUP LABORATORIES

MOLECULAR ONCOLOGY SERVICES

Molecular diagnostics is an important component of clinical oncology, supplying pertinent information for diagnosis, prognosis, and prediction of response to tailored chemotherapeutic agents. ARUP Laboratories offers a wide range of molecular diagnostic tests designed to answer important clinical questions regarding diagnosis, prognosis, and pharmacogenetics. Using state-of-the-art methodologies, including fluorescence in situ hybridization (FISH), polymerase chain reaction (PCR), and next-generation sequencing analysis, ARUP Laboratories supplies pertinent clinical information for a variety of cancers.

This brochure has been organized into two sections:

- Test Categories, which includes diagnostic markers, pharmacogenetic markers, and prognostic markers
- Diagnostic Categories/Tumor Type

ARUP Laboratories is committed to supplying high-quality molecular diagnostic testing in a timely fashion and will continuously expand its test menu as new procedures and markers of clinical utility are identified.



	т		TEGOR	IES
		Diagnos	tic Markers	
Test #	Test Name	Specimen Type	Test #	Test No
3001309	1p/19q Deletion by FISH	Р	3001304	DDIT3 (C
2002647	Acute Lymphocytic Leukemia Panel by FISH, Adult	WB, BM	2002440	EGFR M
2002719	Acute Lymphocytic Leukemia Panel by FISH, Pediatric	WB, BM	2010193	Endocri and Del
2011132	Acute Myeloid Leukemia Panel by FISH	WB, BM	2002378	Eosinop
	Acute Myelogenous Leukemia (AML) with		2007914	EPOR M
2002653	Myelodysplastic Syndrome (MDS) or Therapy- Related AML by FISH	WB, BM	2002298	ETV6-RU by FISH
2012710	Aggressive B-Cell Lymphoma FISH Reflex, Tissue	Р	2002298	EWSR1
3001302	ALK Gene Rearrangements by FISH, Lung	Р	3001305	EWSR1
2006193	B-Cell Clonality Screening (IgH and IgK) by PCR	WB, BM,	2004863	Familial
		FF		Familia
3001311	BCL6 (3q27) Gene Rearrangement by FISH	Р	2004915	Sequen Duplica
2002298	BCL6 Rearrangement (3q27)	WB, BM		Dupilou
2002298	BCR-ABL1 Fusion t(9;22)(q34;q11.2) by FISH	WB, BM	2001961	Familia
2005017	BCR-ABL1 Major (p210), Quantitative	WB, BM		Lynch S
2005016	BCR-ABL1 Minor (p190), Quantitative	WB, BM	2002298	F0X01 (
2005010	<i>BCR-ABL1</i> , Qualitative with Reflex to <i>BCR-ABL1</i> , Quantitative	WB, BM	3001297	<i>FOXO1</i> (FISH
2002298	MALT1 (18q21) gene rearrangement by FISH	WB, BM	2013449	Gastroi
2002498	BRAF Codon 600 Mutation Detection by Pyrosequencing	Р	2013449	Sequen Gastroii
0051750	BRAF Codon 600 Mutation Detection with Reflex to MLH1 Promoter Methylation	Р	2010757	Heredita Genes
2007132	<i>BRAF</i> V600E Mutation Detection in Hairy Cell Leukemia by Real-Time PCR, Quantitative	WB, BM	2007167	Heredit (<i>SDHB</i> , S
2010673	<i>CALR</i> (Calreticulin) Exon 9 Mutation Analysis by PCR	WB, BM		Duplica Heredita
2002298	CBFB Rearrangement inv(16)(p13.3q22) by FISH	WB, BM	2007108	(SDHB)
2011114	CBFB-MYH11 inv(16) Detection, Quantitative	WB, BM		Heredit
2010188	Central Nervous System Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 15 Genes	WB	2007117	(SDHC) Heredita
2002292	Chromosone Analysis, Bone Marrow	BM	2007122	(SDHD)
2002300	Chromosome Analysis, Lymph Node	+		HNPCC
2002290	Chromosome Analysis, Leukemic Blood	WB	0051650	Deletion
2002296	Chromosone Analysis, Solid Tumor	+		HNPCC
2010229	Cytogenomic Molecular Inversion Probe Array, FFPE Tissue—Oncology	Р	0051654	Deletior
2006325	Cytogenomic SNP Microarray, Oncology	WB, BM	0051656	HNPCC, Deletion
2002298	DDIT3 (CHOP) (12q13) Gene Rearrangement by FISH	+, TP	0051737	HNPCC, Deletior

Markers		
Test #	Test Name	Specimen Type
3001304	DDIT3 (CHOP) (12q13) Gene Rearrangement by FISH	Р
2002440	EGFR Mutation Detection by Pyrosequencing	P, FNA
2010193	Endocrine Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 13 Genes	WB
2002378	Eosinophilia Panel by FISH	WB, BM
2007914	EPOR Mutation Detection by Sequencing.	WB
2002298	<i>ETV6-RUNX1 (TEL-AML1</i>) Fusion, t(12;21)(p13;q22) by FISH	WB, BM
2002298	EWSR1 (22q12) Rearrangement by FISH	+
3001305	EWSR1 (22q12) Gene Rearrangement by FISH	Р
2004863	Familial Adenomatous Polyposis (APC) Sequencing	WB
2004915	Familial Adenomatous Polyposis Panel: <i>APC</i> Sequencing, (<i>APC</i>) Sequencing and Deletion/ Duplication, (<i>MUTYH</i>) 2 Mutations	WB
2001961	Familial Mutation, Target Sequencing (HNPCC/ Lynch Syndrome)	WB
2002298	FOXO1 (FKHR) (13q13) Gene Rearrangement by FISH	+
3001297	<i>FOXO1 (FKHR</i>) (13q14) Gene Rearrangement by FISH	Р
2013449	Gastrointestinal Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 16 Genes	WB
2002674	Gastrointestinal Stromal Tumor Mutation	Р
2010757	Hereditary Cancer Panel, Deletion/Duplication, 36 Genes	WB
2007167	Hereditary Paraganglioma-Pheochromocytoma (SDHB, SDHC, and SDHD) Sequencing and Deletion/ Duplication Panel	WB
2007108	Hereditary Paraganglioma-Pheochromocytoma (SDHB) Sequencing and Deletion/Duplication	WB
2007117	Hereditary Paraganglioma-Pheochromocytoma (<i>SDHC</i>) Sequencing and Deletion/Duplication	WB
2007122	Hereditary Paraganglioma-Pheochromocytoma (SDHD) Sequencing and Deletion/Duplication	WB
0051650	HNPCC/Lynch Syndrome (<i>MLH1</i>) Sequencing and Deletion/Duplication	WB
0051654	HNPCC/Lynch Syndrome (<i>MSH2</i>) Sequencing and Deletion/Duplication	WB
0051656	HNPCC/Lynch Syndrome (<i>MSH6</i>) Sequencing and Deletion/Duplication	WB
0051737	HNPCC/Lynch Syndrome (<i>PMS2</i>) Sequencing and Deletion/Duplication	WB

+ Fresh tissue, unfixed specimen. Use test code 2002298 to order and specify probe.

BM-bone marrow

		ST CAT			
	μιαξ		kers, cont	Inued	Specime
Test #	Test Name	Specimen Type	Test #	Test Name	Туре
2001728	HNPCC/Lynch Syndrome Deletion/Duplication-	WB	2002499	MLH1 Promoter Methylation, Paraffin	Р
	<i>MLH1, MSH2, MSH6,</i> or <i>PMS2</i> Hyperdiploidy with Trisomy 4 and 10 for Pediatric	WD	2005545	MPL Codon 515 Mutation Detection by Pyrosequencing, Quantitative	WB
2002298	ALL	WB, BM	2005359	Multiple Endocrine Neoplasia (MEN1) Sequencing	WB
2002298	IGH Rearrangement 14q32	WB, BM	2005360	Multiple Endocrine Neoplasia (<i>MEN1</i>) Sequencing	WB
3001298	IGH-BCL2 Fusion, t(14;18) by FISH	Р	2005360	and Deletion/Duplication	VVD
2002298	IGH-BCL2 Fusion, t(14;18)(q32;q21) by FISH	WB, BM	0051200	Multiple Endocrine Neoplasia Type 2 (MEN2), RET	
3001306	IGH-CCND1 Fusion, t(11;14) by FISH	Р	0051390	Gene Mutations by Sequencing	WB
2002298	<i>IGH-CCND1</i> Fusion, t(11;14)(q13;q32) by FISH	WB, BM	2004911	MUTYH-Associated Polyposis (MUTYH) 2 Mutations	WB
3001299	IGH-MYC Fusion, t(8;14) by FISH	Р		MUTYH-Associated Polyposis (MUTYH) 2 Mutations	
3001568	IRF4/DUSP22 (6p25) Gene Rearrangement by FISH	Р	2006307	with Reflex to Sequencing	WB
2002357	JAK2 Exon 12 Mutation Analysis by PCR	WB, BM	2006191	MUTYH-Associated Polyposis (MUTYH) Sequencing	WB
051245	JAK2 Gene, V617F Mutation, Qualitative	WB, BM	3001300	MYC (8q24) Gene Rearrangement by FISH	Р
	JAK2 Gene, V617F Mutation, Qualitative with Reflex		2002298	MYC Rearrangement 8q24 by FISH	WB, BM
2012085	to JAK2 Exon 12 Mutation Analysis by PCR	WB, BM	3001307	MYCN (N-MYC) Gene Rearrangement by FISH	P
	JAK2 Gene, V617F Mutation, Qualitative with Reflex to CALR (Calreticulin) Exon 9 Mutation Analysis		2009318	MYD88 L265P Mutation Detection by PCR, Quantitative	WB, BM, P
2012084	by PCR with Reflex to MPL codon 515 Mutation	WB, BM	2002528	Pancreatobiliary FISH	VARIES
	Detection by Pyrosequencing, Quantitative			PCA3-Prostate Cancer Biomarker	UR
0040168	JAK2 Gene, V617F Mutation, Quantitative	WB	2002298	PDGFRA Rearrangement 4q12 by FISH	WB, BM
051510	Juvenile Polyposis (SMAD4) Sequencing	WB	2002298	PDGFRB Rearrangement 5q33.1 by FISH	WB, BM
2001971	Juvenile Polyposis (<i>SMAD4</i>) Sequencing and Deletion/Duplication	WB	2002871	<i>PML-RARA</i> Translocation, t(15;17) by RT-PC R , Quantitative	WB, BM
2004988	Juvenile Polyposis Syndrome (BMPR1A) Sequencing	WB	2002363	PML-RARA Translocation by FISH	BM
	Juvenile Polyposis Syndrome (<i>BMPR1A</i>)		2002722	PTEN-Related Disorders (PTEN) Sequencing	WB
2004992	Sequencing and Deletion/Duplication	WB	2002470	PTEN-Related Disorders (PTEN) Sequencing and Deletion/Duplication	WB
3000440	KIT (D816V) Mutation by PCR	WB, BM			
2012207	<i>KIT</i> (D816V) Mutation Detection by PCR for Gleevec Eligibility in Aggressive Systemic Mastocytosis		2010214	Renal Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 15 Genes	WB
	(ASM). <i>KIT</i> Mutations in AML by Fragment Analysis and		2002298	<i>RUNX1-RUNX1T1 (AML1-ETO</i>) Fusion, t(8;21) (q22;q22) by FISH	WB, BM
2002437	Sequencing	WB, BM	2010138	RUNX1-RUNX1T1 (AML1-ETO) t(8;21) Detection,	WB, BM
2002695	KIT Mutations, Melanoma	Р		Quantitative	,
2009302	Li-Fraumeni (TP53) Sequencing	WB	3001303	SS18 (SYT) (18q11) Gene Rearrangement by FISH	Р
2009313	Li-Fraumeni (<i>TP53</i>) Sequencing and Deletion/ Duplication	WB		SS18 (SYT) Rearrangement by FISH	+, TP WB, BM,
2010209	Melanoma Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 6 Genes	WB		T-Cell Clonality Screening by PCR	FF, P
000010	· ·			TCF3 (E2A) Rearrangement 19p13 by FISH	WB, BM
2009310	MGMT Methylation Detection by PCR	Р	2001181	UroVysion FISH	UR
0051740	Microsatellite Instability (MSI), HNPCC/Lynch Syndrome by PCR	Р	2002970	von Hippel-Lindau (VHL) Sequencing	WB

FNA-FNA smear

PL-plasma

TP-touch prep

WB-whole blood

UR-urine

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	T		FEGO R	IES	
	Pharmacoge	enetic and 1	argeted Th	nerapy Markers	
Test #	Test Name	Specimen Type	Test #	Test Name	Specimen Type
2007228	5-Fluorouracil (5-FU) Toxicity and	WB	2002695	KIT Mutations, Melanoma	Р
2007228	Chemotherapeutic Response, 7 Mutations	WB	0040248	KRAS Mutation Detection	Р
3001302	ALK Gene Rearrangements by FISH, Lung	Р	0001000	KRAS Mutation Detection with Reflex to BRAF	D
2002298	BCR-ABL1 Fusion, t(9;22)(q34;q11.2) by FISH	+	2001932	Codon 600 Mutation Detection	P
2008420	BCR-ABL1 Mutation Analysis by Next-Generation		2008894	Lung Cancer Panel	Р
2008420	Sequencing	WB, BM	2008895	Lung Cancer Panel with KRAS	Р
2013921	<i>BRAF</i> V600E Mutation Detection in Circulating Tumor DNA by Digital Droplet PCR	WB	0055655	Methylenetetrahydrofolate Reductase (<i>MTHFR</i>) 2 Mutations	WB
0051104	Cytochrome P450 2C19 (CYP2C19) 9 Mutations	WB	2003123	NRAS Mutation Detection by Pyrosequencing	Р
0051103	Cytochrome P450 2C9 (CYP2C9) 2 Mutations	WB	2002298	PDGFRA by FISH	WB, BM
0014547	Cytochrome P450 2D6 (CYP2D6) 15 Variants and	W/D	2002298	PDGFRB by FISH	WB, BM
2014547	Gene Duplication	WB	2002363	PML-RARA Translocation by FISH	WB, BM
2002440	EGFR Mutation Detection by Pyrosequencing	P, FNA	2002871	PML-RARA Translocation, t(15;17) by RT-PCR,	WB, BM
2012868	<i>EGFR</i> T790M Mutation Detection in Circulating Tumor DNA by Digital Droplet PCR	WB		Quantitative Solid Tumor Mutation Panel by Next-Generation	
2008603	ERBB2 (HER-2/neu) Gene Amplification by FISH	Р	2007991	Sequencing	P, FNA
3001161	FLT3 ITD and TKD Mutation Detection	WB, BM		UDP-Glucuronosyltransferase 1A1 (UGT1A1)	
2002674	Gastrointestinal Stromal Tumor Mutation	Р	0051332	Genotyping	WB
3000440	KIT (D816V) Mutation by PCR	WB, BM			
	I				

		Prognosti	stic Markers		
Test #	Test Name	Specimen Type	Test #	Test Name	Specimen Type
2012710	Aggressive B-Cell Lymphoma FISH Reflex, Tissue	Р	2002298	CBFB Rearrangement inv(16)(p13.3q22) by FISH	WB, BM
2002298	BCR-ABL1 Fusion, t(9;22)(q34;q11.2) by FISH	WB, BM	2011114	CBFB-MYH11 inv(16) Detection, Quantitative	WB, BM
2008420	BCR-ABL1 Mutation Analysis by Next-Generation	WB, BM	2004247	CEBPA Mutation Detection	WB, BM
2008420	Sequencing	WD, DW	2002295	Chronic Lymphocytic Leukemia (CLL) Panel by FISH	WB, BM
2005017	BCR-ABL1 Major (p210), Quantitative	WB, BM	3001310	EGFR Gene Amplification by FISH	Р
2005016	BCR-ABL1 Minor (p190), Quantitative	WB, BM	2002440	EGFR Mutation Detection by Pyrosequencing	P, FNA
2005010	BCR-ABL1 Qualitative with Reflex to BCR-ABL1	WB, BM	2002378	Eosinophilia Panel by FISH	WB, BM
2005010	Quantitative		2002298	ETV6-RUNX1 (TEL-AML1) Fusion, t(12;21)(p13;q22) by FISH	WB, BM
2011954	Breast and Ovarian Hereditary Cancer Syndrome (BRCA1 and BRCA2) Sequencing	WB	2004863		WB
2011949	Breast and Ovarian Hereditary Cancer Syndrome (<i>BRCA1</i> and <i>BRCA2</i>) Sequencing and Deletion/ Duplication	WB	2004915	2004915 Familial Adenomatous Polyposis Panel: (<i>APC</i>) Sequencing and Deletion/Duplication, (<i>MUTYH</i>) 2 Mutations	
2012026	Breast and Ovarian Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 20 Genes	WB	2001961	Familial Mutation, Targeted Sequencing (HNPCC/ Lynch Syndrome)	WB
2010673	CALR (Calreticulin) Exon 9 Mutation Analysis by PCR	WB, BM		Hereditary Paraganglioma-Pheochromocytoma	
2012032			2007167	(SDHB, SDHC, and SDHD) Sequencing and Deletion/ Duplication Panel	WB

BM-bone marrow

	T			IES	
	Pro	gnostic Ma	rkers conti	nued	
Test #	Test Name	Specimen Type	Test #	Test Name	Specime Type
7100	Hereditary Paraganglioma-Pheochromocytoma	WD	2002298	MLL Rearrangement 11q23 by FISH	WB, BM
7108	(SDHB) Sequencing and Deletion/Duplication	WB	2005359	Multiple Endocrine Neoplasia (MEN1) Sequencing	WB
7117	Hereditary Paraganglioma-Pheochromocytoma (SDHC) Sequencing and Deletion/Duplication	WB	2005360	Multiple Endocrine Neoplasia (<i>MEN1</i>) Sequencing and Deletion/Duplication	WB
22	Hereditary Paraganglioma-Pheochromocytoma (SDHD) Sequencing and Deletion/Duplication	WB	0051390	Multiple Endocrine Neoplasia Type 2 (<i>MEN2</i>), <i>RET</i> Gene Mutations by Sequencing	WB
50	HNPCC/Lynch Syndrome (<i>MLH1</i>) Sequencing and	WD	2002294	Multiple Myeloma Panel by FISH	WB, BM
	Deletion/Duplication HNPCC/Lynch Syndrome (<i>MSH2</i>) Sequencing and	WB	2006307	<i>MUTYH</i> -Associated Polyposis (<i>MUTYH</i>) 2 Mutations with Reflex to Sequencing	WB
654	Deletion/Duplication	WB	2006191	MUTYH-Associated Polyposis (MUTYH) Sequencing	WB
556	HNPCC/Lynch Syndrome (MSH6) Sequencing and		2004911	MUTYH-Associated Polyposis (MUTYH) 2 Mutations	WB
6	Deletion/Duplication	WB	2002709	Myelodysplastic Syndrome (MDS) Panel by FISH	BM, WB
	NPCC/Lynch Syndrome (<i>PMS2</i>) Sequencing and eletion/Duplication	WB	3000066	NPM1 Mutation Detection by RT-PCR, Quantitative	WB, BM, P
44	IDH1 and IDH2 Mutation Analysis, Exon 4	WB, BM		PCA3-Prostate Cancer Biomarker by Transcription-	
~	IDH1 and IDH2 Mutation Analysis, Exon 4,	5	2010102	Mediated Amplification	UR
4188	Formalin-Fixed, Paraffin-Embedded (FFPE) Tissue	Р	2002363	<i>PML-RAR</i> α FISH	WB, BM
0227	IGHV Mutation Analysis by Sequencing	WB, BM	2002871	PML-RARA Translocation, t(15;17) by RT-PCR,	WB, BM
437	<i>KIT</i> Mutations in AML by Fragment Analysis and Sequencing	WB, BM		Quantitative RUNX1-RUNX1T1 (AML1-ETO) Fusion, t(8;21)	
01161	FLT3 ITD and TKD Mutation Detection	WB, BM	2002298	(q22;q22) by FISH	WB, BM
9302	Li-Fraumeni (<i>TP53</i>) Sequencing	WB	0010100	RUNX1-RUNX1T1 (AML1-ETO) t(8;21) Detection,	
313	Li-Fraumeni (<i>TP53</i>) Sequencing and Deletion/ Duplication	WB	2010138	Quantitative TCF3 (E2A) Rearrangement	WB, BM WB, BM
1313	MET Gene Amplification by FISH	Р		WT1 Mutations by Sequencing	WB, BM
740	Microsatellite Instability (MSI), HNPCC/Lynch Syndrome by PCR	Р	L		1

P-paraffinized tissue

FNA-FNA smear

n

TP-touch prep

	DIAGNOSTIC	CATE
Test #	Test Name	Specimen Type
	Alveolar Rhabdomyosarcoma	
2002298	FKHR (FOX01) 13q13 by FISH	+
3001297	FOX01 (FKHR) (13q14) Gene Rearrangement by FISH	Р
	Bladder Cancer (Urothelial Carcinoma))
2001181	UroVysion FISH	UR
	Breast Cancer (Breast Carcinoma)	
2011954	Breast and Ovarian Hereditary Cancer Syndrome (<i>BRCA1</i> and <i>BRCA2</i>) Sequencing	WB
2011949	Breast and Ovarian Hereditary Cancer Syndrome (<i>BRCA1</i> and <i>BRCA2</i>) Sequencing and Deletion/ Duplication	WB
2012026	Breast and Ovarian Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 20 Genes	WB
2008603	ERBB2 (HER-2/neu) Gene Amplification by FISH	Р
2002722	PTEN-Related Disorders (PTEN) Sequencing	WB
2002470	<i>PTEN</i> -Related Disorders (<i>PTEN</i>) Sequencing and Deletion/Duplication	WB
2009302	Li-Fraumeni (<i>TP53</i>) Sequencing	WB
2009313	Li-Fraumeni (<i>TP53</i>) Sequencing and Deletion/ Duplication	WB
2008394	Peutz-Jeghers Syndrome (STK11) Sequencing	WB
2008398	Peutz-Jeghers Syndrome (<i>STK11</i>) Sequencing and Deletion/Duplication	WB
	Colon Cancer (Colonic Adenocarcinom	a)
2007228	5-Fluorouracil (5-FU) Toxicity and Chemotherapeutic Response, 7 Mutations	WB
2002498	<i>BRAF</i> Codon 600 Mutation Detection by Pyrosequencing	Р
2013921	<i>BRAF</i> V600E Mutation Detection in Circulating Tumor DNA by Digital Droplet PCR	WB
0051750	<i>BRAF</i> Codon 600 Mutation Detection with Reflex to <i>MLH1</i> Promoter Methylation	Р
2010757	Cancer Panel, Hereditary, Deletion/Duplication, 46 Genes	WB
2012032	Cancer Panel, Hereditary, Sequencing and Deletion/ Duplication, 47 Genes	WB
2013906	Epi proColon	WB
2004863	Familial Adenomatous Polyposis (APC) Sequencing	WB
2004915	Familial Adenomatous Polyposis Panel: (APC) Sequencing and Deletion/Duplication, (MUTYH) 2 Mutations	WB
2001961	Familial Mutation, Targeted Sequencing (HNPCC/ Lynch Syndrome)	WB
2013449	Gastrointestinal Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 16 genes	WB
0051650	HNPCC/Lynch Syndrome (<i>MLH1</i>) Sequencing and Deletion/Duplication	WB

SequencingWB0051332UDP-Glucuronosyltransferase 1A1 (UGT1A1) GenotypingWBCNS/ Renal Cell Carcinoma/ Pheochromocytoma2010188Central Nervous System Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 15 Genes2002970von Hippel-Lindau (VHL) SequencingWB2002965von Hippel-Lindau (VHL) Sequencing and Deletion/ DuplicationWB	Test #	Test Name	Specime Type
00031656Deletion/DuplicationWB0051737HNPCC/Lynch Syndrome (PMS2) Sequencing and Deletion/DuplicationWB2001728HNPCC/Lynch Syndrome Deletion/Duplication MLH1, MSH2, MSH6, or PMS2WB2001713Juvenile Polyposis (SMAD4) SequencingWB2001971Juvenile Polyposis (SMAD4) Sequencing and Deletion/DuplicationWB2004988Juvenile Polyposis Syndrome (BMPR1A) SequencingWB2004992Juvenile Polyposis Syndrome (BMPR1A) 	0051654		WB
0031731Deletion/DuplicationWB2001728HNPCC/Lynch Syndrome Deletion/Duplication MLH1, MSH2, MSH6, or PMS2WB0051510Juvenile Polyposis (SMAD4) SequencingWB2001971Juvenile Polyposis (SMAD4) Sequencing and Deletion/DuplicationWB2004988Juvenile Polyposis Syndrome (BMPR1A) SequencingWB2004992Juvenile Polyposis Syndrome (BMPR1A)WB2004992Juvenile Polyposis Syndrome (BMPR1A)WB2004992Livenile Polyposis Syndrome (BMPR1A)WB2004992Livenile Polyposis Syndrome (BMPR1A)WB2004902KRAS Mutation DetectionP2001932Li-Fraumeni (TP53) SequencingWB2009313Li-Fraumeni (TP53) Sequencing and Deletion/ DuplicationWB2002327Mismatch Repair by IHC with Reflex to BRAF Codon 600 Mutation and MLH1 Promoter MethylationP2002409MLH1 Promoter Methylation, ParaffinP2006307MUTYH-Associated Polyposis (MUTYH) 2 Mutations with Reflex to SequencingWB2003123NRAS Mutation Detection by PyrosequencingP2008394Peutz-Jeghers Syndrome (STK11) Sequencing and Deletion/DuplicationWB2007991Solid Tumor Mutation Panel by Next-Generation SequencingP, FNA20051332UDP-Glucuronosyltransferase 1A1 (UGT1A1) GenotypingWB2002970von Hippel-Lindau (VHL) Sequencing and Deletion/ DuplicationWB2002955von Hippel-Lindau (VHL) Sequencing and Deletion/WB	0051656		WB
2001725MLH1, MSH2, MSH6, or PMS2WB0051510Juvenile Polyposis (SMAD4) SequencingWB2001971Juvenile Polyposis (SMAD4) Sequencing and Deletion/DuplicationWB2004988Juvenile Polyposis Syndrome (BMPR1A) SequencingWB2004992Juvenile Polyposis Syndrome (BMPR1A) Sequencing and Deletion/DuplicationWB2004921Juvenile Polyposis Syndrome (BMPR1A) Sequencing and Deletion/DuplicationWB2004922Juvenile Polyposis Syndrome (BMPR1A) Sequencing and Deletion/DuplicationWB2001932KRAS Mutation Detection with Reflex to BRAF Codon 600 Mutation DetectionP2009303Li-Fraumeni (TP53) Sequencing and Deletion/ DuplicationWB20051740Microsatellite Instability (MSI), HNPCC/Lynch Syndrome by PCRP2002327Mismatch Repair by IHC with Reflex to BRAF Codon 600 Mutation and MLH1 Promoter MethylationP2006307MLH1 Promoter Methylation, Paraffin WITYH-Associated Polyposis (MUTYH) 2 Mutations with Reflex to SequencingWB2001312NRAS Mutation Detection by Pyrosequencing PP2008398Peutz-Jeghers Syndrome (STK11) Sequencing and Deletion/DuplicationWB2007991Solid Tumor Mutation Panel by Next-Generation SequencingP, FNA20051332UDP-Glucuronosyltransferase 1A1 (UGT1A1) GenotypingWB2002970von Hippel-Lindau (VHL) Sequencing and Deletion/ DuplicationWB2002970von Hippel-Lindau (VHL) Sequencing and Deletion/ DuplicationWB	0051737		WB
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2004911MUTYH-Associated Polyposis (MUTYH) 2 MutationsWB2003123NRAS Mutation Detection by PyrosequencingP2008394Peutz-Jeghers Syndrome (STK11) SequencingWB2008398Peutz-Jeghers Syndrome (STK11) Sequencing and Deletion/DuplicationWB2007991Solid Tumor Mutation Panel by Next-Generation SequencingP, FNA0051332UDP-Glucuronosyltransferase 1A1 (UGT1A1) GenotypingWB2010188Central Nervous System Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 15 GenesWB2002970von Hippel-Lindau (VHL) SequencingWB2002965von Hippel-Lindau (VHL) Sequencing and Deletion/ WBWB	2006307		WB
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2008398Deletion/DuplicationWB2007991Solid Tumor Mutation Panel by Next-Generation SequencingP, FNA0051332UDP-Glucuronosyltransferase 1A1 (UGT1A1) GenotypingWBCNS/ Renal Cell Carcinoma/ Pheochromocytoma2010188Central Nervous System Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 15 Genes2002970von Hippel-Lindau (VHL) SequencingWB2002965von Hippel-Lindau (VHL) Sequencing and Deletion/ WBWB	2008394	Peutz-Jeghers Syndrome (STK11) Sequencing	WB
2007391 Sequencing F, FNA 0051332 UDP-Glucuronosyltransferase 1A1 (UGT1A1) Genotyping WB CNS/ Renal Cell Carcinoma/ Pheochromocytoma 2010188 Central Nervous System Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 15 Genes WB 2002970 von Hippel-Lindau (VHL) Sequencing WB 2002965 von Hippel-Lindau (VHL) Sequencing and Deletion/ WB	2008398		WB
OUDST332GenotypingWBCNS/ Renal Cell Carcinoma/ Pheochromocytoma2010188Central Nervous System Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 15 GenesWB2002970von Hippel-Lindau (VHL) SequencingWB2002965von Hippel-Lindau (VHL) Sequencing and Deletion/ DuplicationWB	2007991		P, FNA
2010188Central Nervous System Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 15 GenesWB2002970von Hippel-Lindau (VHL) SequencingWB2002965von Hippel-Lindau (VHL) Sequencing and Deletion/ DuplicationWB	0051332		WB
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2002965 von Hippel-Lindau (<i>VHL</i>) Sequencing and Deletion/ WB	2010188		WB
Duplication WB	2002970	von Hippel-Lindau (VHL) Sequencing	WB
En de se abried Causein a se s	2002965		WB
Endometrial Carcinoma		Endometrial Carcinoma	

BM-bone marrow

	DIAGNOSTIC	CATE	9 (ORIES	TUMOR TYPE
Test #	Test Name	Specimen Type		Test #	Test Name
	Ewing Sarcoma				Oligodeno
3001305	EWSR1 (22q12) Gene Rearrangement by FISH	Р		3001309	1p/19q Deletion by FISH
2002298	EWSR1 Rearrangement by FISH	+			Paraganglioma/Ph
	Gastrointestinal Stromal Tumor (GIST)				Hereditary Paraganglioma-P
2002674	Gastrointestinal Stromal Tumor Mutation	Р		2007167	(SDHB, SDHC, and SDHD) Sec Duplication Panel
2007991	Solid Tumor Mutation Panel by Next-Generation Sequencing	Р	-	2007108	Hereditary Paraganglioma-P
	Glioblastoma			2007100	(SDHB) Sequencing and Dele
3001310	EGFR Gene Amplification by FISH	Р		2007117	Hereditary Paraganglioma-P (SDHC) Sequencing and Dele
2002440	EGFR Mutation Detection by Pyrosequencing	P, FNA			Hereditary Paraganglioma-F
2014188	IDH1 and IDH2 Mutation Analysis, Exon 4	Р		2007122	(<i>SDHD</i>) Sequencing and Del
2009310	MGMT Methylation Detection by PCR	Р			Parathyroid/Pitu
	Lung Carcinoma			2005359	Multiple Endocrine Neoplasi
3001302	ALK Gene Rearrangements by FISH, Lung	Р		2005360	Multiple Endocrine Neoplasi and Deletion/Duplication
2002498	BRAF Codon 600 Mutation Detection by Pyrosequencing	Р			Round Cell/Myx
2013921	<i>BRAF</i> V600E Mutation Detection in Circulating Tumor DNA by Digital Droplet PCR	WB		2002298	<i>DDIT3 (CHOP</i>) (12q13) Gene F
2002440	EGFR Mutation Detection by Pyrosequencing	P, FNA		3001304	DDIT3 (CHOP) (12q13) Gene R
2012868	EGFR T790M Mutation Detection in Circulating	WB		3001301	MDM2 Gene Amplification by
	Tumor DNA by Digital Droplet PCR				Synovial
	KRAS Mutation Detection	P		3001303	<i>SS18</i> (<i>SYT</i>) (18q11) Gene Re
	Lung Cancer Panel	P			Systemic M
2008895	Lung Cancer Panel with KRAS	P		3000440	KIT (D816V) Mutation by PC
	MET Gene Amplification by FISH	-			Thyroid C
	RET Gene Rearrangements by FISH ROS1 by FISH	P		2002498	BRAF Codon 600 Mutation D Pyrosequencing
	Solid Tumor Mutation Panel by Next-Generation	-			BRAF V600E Mutation Detec
2007991	Sequencing	P, FNA		2013921	Tumor DNA by Digital Drople
	Melanoma			0051390	Multiple Endocrine Neoplasi
2002498	BRAF Codon 600 Mutation Detection by Pyrosequencing	Р		3001312	Gene Mutations by Sequence <i>RET</i> Gene Rearrangements I
2013921	BRAF V600E Mutation Detection in Circulating Tumor DNA by Digital Droplet PCR	WB		2007991	Solid Tumor Mutation Panel Sequencing
2010757	Cancer Panel, Hereditary, Deletion/Duplication, 46 Genes	WB			
2002695	<i>KIT</i> Mutations, Melanoma	Р			
2010209	Melanoma Hereditary Cancer Panel, Sequencing and Deletion/Duplication, 6 Genes	WB			
2003123	NRAS Mutation Detection by Pyrosequencing	Р			
2007991	Solid Tumor Mutation Panel by Next-Generation Sequencing Neuroblastoma	P, FNA			
3001307	MYCN (N-Myc) Gene Amplification by FISH	Р			
		•			

Oligodendroglioma30013091p/19q Deletion by FISHPParaganglioma/Pheochromocytoma (SDHB, SDHC, and SDHD) Sequencing and Deletion/ Duplication Panel2007107Hereditary Paraganglioma-Pheochromocytoma (SDHB) Sequencing and Deletion/DuplicationWB2007108Hereditary Paraganglioma-Pheochromocytoma (SDHB) Sequencing and Deletion/DuplicationWB2007117Hereditary Paraganglioma-Pheochromocytoma (SDHC) Sequencing and Deletion/DuplicationWB2007112Hereditary Paraganglioma-Pheochromocytoma (SDHC) Sequencing and Deletion/DuplicationWB2007122Hereditary Paraganglioma-Pheochromocytoma (SDHD) Sequencing and Deletion/DuplicationWB2005359Multiple Endocrine Neoplasia (MEN1) Sequencing and Deletion/DuplicationWB2005360Multiple Endocrine Neoplasia (MEN1) Sequencing and Deletion/DuplicationWB2002298DDIT3 (CHOP) (12q13) Gene Rearrangement by FISH PREP, +P3001301MDM2 Gene Amplification by FISHP3001303SS18 (SYT) (18q11) Gene Rearrangement by FISH PP3001400KIT (D816V) Mutation by PCRWB, BMThyroid Carcinoma	Test #	Test Name	Specimen Type				
Paraganglioma/Pheochromocytoma 2007167 Hereditary Paraganglioma-Pheochromocytoma (SDHB, SDHC, and SDHD) Sequencing and Deletion/ Duplication Panel WB 2007108 Hereditary Paraganglioma-Pheochromocytoma (SDHB) Sequencing and Deletion/Duplication WB 2007117 Hereditary Paraganglioma-Pheochromocytoma (SDHC) Sequencing and Deletion/Duplication WB 2007122 Hereditary Paraganglioma-Pheochromocytoma (SDHD) Sequencing and Deletion/Duplication WB 2007122 Hereditary Paraganglioma-Pheochromocytoma (SDHD) Sequencing and Deletion/Duplication WB 2007122 Hereditary Paraganglioma-Pheochromocytoma (SDHD) Sequencing and Deletion/Duplication WB 2005359 Multiple Endocrine Neoplasia (MEN1) Sequencing and Deletion/Duplication WB 2005360 Multiple Endocrine Neoplasia (MEN1) Sequencing and Deletion/Duplication WB 2002298 DDIT3 (CHOP) (12q13) Gene Rearrangement by FISH P 3001301 MDM2 Gene Amplification by FISH P 3001303 SS18 (SYT) (18q11) Gene Rearrangement by FISH P 3000440 KIT (D816V) Mutation by PCR WB, BM Thyroid Carcinoma		Oligodendroglioma					
2007167 Hereditary Paraganglioma-Pheochromocytoma (SDHB, SDHC, and SDHD) Sequencing and Deletion/ Duplication Panel WB 2007108 Hereditary Paraganglioma-Pheochromocytoma (SDHB) Sequencing and Deletion/Duplication WB 2007117 Hereditary Paraganglioma-Pheochromocytoma (SDHC) Sequencing and Deletion/Duplication WB 2007112 Hereditary Paraganglioma-Pheochromocytoma (SDHC) Sequencing and Deletion/Duplication WB 2007122 Hereditary Paraganglioma-Pheochromocytoma (SDHD) Sequencing and Deletion/Duplication WB 2005359 Multiple Endocrine Neoplasia (MEN1) Sequencing and Deletion/Duplication WB 2005360 Multiple Endocrine Neoplasia (MEN1) Sequencing and Deletion/Duplication WB 2002298 DDIT3 (CHOP) (12q13) Gene Rearrangement by FISH P 3001301 MDM2 Gene Amplification by FISH P 3001303 SS18 (SYT) (18q11) Gene Rearrangement by FISH P Systemic Mastocytosis	3001309	1p/19q Deletion by FISH	Р				
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20071117 (SDHC) Sequencing and Deletion/Duplication WB 2007122 Hereditary Paraganglioma-Pheochromocytoma (SDHD) Sequencing and Deletion/Duplication WB Parathyroid/Pituitary/Pancreatic 2005359 Multiple Endocrine Neoplasia (MEN1) Sequencing and Deletion/Duplication WB 2005360 Multiple Endocrine Neoplasia (MEN1) Sequencing and Deletion/Duplication WB Cound Cell/Myxoid Liposarcoma 2002298 DDIT3 (CHOP) (12q13) Gene Rearrangement by FISH P 3001304 DDIT3 (CHOP) (12q13) Gene Rearrangement by FISH P 3001301 MDM2 Gene Amplification by FISH P 3001303 SS18 (SYT) (18q11) Gene Rearrangement by FISH P Systemic Mastocytosis 3000440 K/IT (D816V) Mutation by PCR WB, BM	2007108	Hereditary Paraganglioma-Pheochromocytoma (SDHB) Sequencing and Deletion/Duplication	WB				
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3000440 KIT (D816V) Mutation by PCR WB, BM Thyroid Carcinoma	3001303	<i>SS18</i> (<i>SYT</i>) (18q11) Gene Rearrangement by FISH	Р				
Thyroid Carcinoma		Systemic Mastocytosis					
	3000440	<i>KIT</i> (D816V) Mutation by PCR	WB, BM				
		Thyroid Carcinoma					
2002498 BRAF Codon 600 Mutation Detection by Pyrosequencing P	2002498		Р				
2013921 BRAF V600E Mutation Detection in Circulating Tumor DNA by Digital Droplet PCR WB	2013921		WB				
0051390Multiple Endocrine Neoplasia Type 2 (MEN2), RET Gene Mutations by SequencingWB	0051390		WB				
3001312 RET Gene Rearrangements by FISH P	3001312	RET Gene Rearrangements by FISH	Р				
2007991 Solid Tumor Mutation Panel by Next-Generation P, FNA Sequencing	2007991		P, FNA				

FNA-FNA smear

PL-plasma

TP-touch prep

WB-whole blood

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LEUKEMIA/					
Test #	Test Name	Specimen Type			
	Acute Lymphoblastic Leukemia (ALL)				
2002647	Acute Lymphocytic Leukemia (ALL) Panel by FISH, Adult	BM, WB			
2002719	Acute Lymphocytic Leukemia (ALL) Panel by FISH, Pediatric	BM, WB			
2002298	BCR-ABL1 Fusion, t(9;22)(q34;q11.2) by FISH	WB, BM			
2005010	<i>BCR-ABL1</i> Qualitative with Reflex to <i>BCR-ABL1</i> Quantitative	WB, BM			
2005016	BCR-ABL1 Minor (p190), Quantitative	WB, BM			
2008420	BCR-ABL1 Mutation Analysis by Next-Generation Sequencing	WB, BM			
2002298	CDKN2 p16 Deletion 9p21 by FISH	WB, BM			
2007130	Chromosome Analysis, Bone Marrow with Reflex to Genomic Microarray	BM			
2007131	Chromosome Analysis, Leukemic Blood with Reflex to Genomic Microarray	WB			
2006325	Cytogenomic SNP Microarray–Oncology	BM, WB			
2002298	<i>ETV6-RUNX1 (TEL-AML1</i>) Fusion, t(12;21)(p13;q22) by FISH	WB, BM			
2002298	Hyperdiploidy with Trisomy 4 and 10	WB, BM			
2002298	IGH Rearrangement 14q32 by FISH	WB, BM			
0055655	Methylenetetrahydrofolate Reductase (<i>MTHFR</i>) 2 Mutations	WB			
2002298	MLL Rearrangement 11q23 by FISH	WB, BM			
3000455	Ph-Like Acute Lymphocytic Leukemia (ALL) Panel by FISH	WB, BM			
2002298	TCF3 (E2A) Rearrangement 19p13 by FISH	WB, BM			
	Acute Myelogenous Leukemia (AML)				
2011132	Acute Myeloid Leukemia Panel by FISH	WB, BM			
2002653	Acute Myelogenous Leukemia (AML) with Myelodysplastic Syndrome (MDS) or Therapy- Related AML by FISH	WB, BM			
2012222	Bone Marrow Failure Sequencing, 35 Genes	WB			
2002298	CBFB Rearrangement inv(16)(p13.3q22) by FISH	WB, BM			
2011114	CBFB-MYH11 inv(16) Detection, Quantitative	WB, BM			
2004247	CEBPA Mutation Detection	WB, BM			
2007130	Chromosome Analysis, Bone Marrow with Reflex to Genomic Microarray	BM			
2006325	Cytogenomic SNP Microarray—Oncology	BM, WB			
2006444	IDH1 and IDH2 Mutation Analysis, Exon 4	WB, BM			
2002437	<i>KIT</i> Mutations in AML by Fragment Analysis and Sequencing	WB, BM			
2014683	LeukoStrat CDx FLT3 Mutation Detection by PCR	WB, BM			
2002298	MLL Rearrangement 11q23 by FISH	WB, BM			
2011117	Myeloid Malignancies Panel by Next-Generation Sequencing	WB, BM			

үмрн	IOMA	
Test #	Test Name	Specimen Type
2012182	Myeloid Malignancies Somatic Mutation and Copy Number Analysis Panel	WB, BM
3000066	NPM1 Mutation Detection by RT-PCR, Quantitative	WB, BM, FF, P
2010138	<i>RUNX1-RUNX1T1 (AML1-ET0)</i> t(8;21) Detection, Quantitative	WB, BM
2002298	<i>RUNX1-RUNX1T1 (AML1-ET0</i>) Fusion, t(8;21) (q22;q22) by FISH	WB, BM
2005766	WT1 Mutations by Sequencing	WB, BM
	Acute Promyelocytic Leukemia (APL)	
2002363	PML-RARA Translocation by FISH	WB, BM
2002871	<i>PML-RARA</i> Translocation, t(15;17) by RT-PCR, Quantitative	WB, BM
	B- and T-Cell Markers Lymphoma	
3001568	IRF4/DUSP22 (6p25) Gene Rearrangement by FISH	Р
2006193	B-Cell Clonality Screening (IgH and IgK) by PCR	WB, BM, FF
2009318	<i>MYD88</i> L265P Mutation Detection by PCR, Quantitative	WB, BM, P
0055567	T-Cell Clonality Screening by PCR	WB, BM, FF, P
	Burkitt Lymphoma	
2012710	Aggressive B-Cell Lymphoma FISH Reflex, Tissue	Р
3001311	BCL6 (3q27) Gene Rearrangement by FISH	Р
3001299	IGH-MYC Fusion t(8;14) by FISH	Р
3001300	MYC (8q24) Gene Rearrangement by FISH	Р
2002298	MYC Rearrangement 8q24 by FISH	WB, BM
	Chronic Lymphocytic Leukemia (CLL)	
2002295	Chronic Lymphocytic Leukemia (CLL) Panel by FISH	WB, BM
0040227	IGHV Mutation Analysis by Sequencing	WB, BM
	Chronic Myelogenous Leukemia (CML))
2002298	BCR-ABL1 Fusion, t(9;22)(q34;q11.2) by FISH	WB, BM
2008420	<i>BCR-ABL1</i> Mutation Analysis by Next-Generation Sequencing	WB, BM
2005017	BCR-ABL1 Major (p210), Quantitative	WB, BM
2005016	BCR-ABL1 Minor (p190), Quantitative	WB, BM
2005010	<i>BCR-ABL1</i> Qualitative with Reflex to <i>BCR-ABL1</i> Quantitative	WB, BM
0055655	Methylenetetrahydrofolate Reductase (<i>MTHFR</i>) 2 Mutations	WB
Fo	llicular Lymphoma/Diffuse Large-Cell Lymp	ohoma
2012710	Aggressive B-Cell Lymphoma FISH Reflex, Tissue	Р
2002298	BCL6 Rearrangement (3q27) by FISH	WB, BM
3001311	BCL6 (3q27) Gene Rearrangement by FISH	Р
2002298	<i>IGH-BCL2</i> Fusion, t(14;18)(q32;q21) by FISH	WB, BM
3001298	IGH-BCL2 Fusion, t(14;18) by FISH	Р

+ Fresh tissue, unfixed specimen. Use test code 2002298 to order and specify probe.

BM-bone marrow

	LEUKEMIA/		
Test *	Test Name	Specimen Type	
	Hairy Cell Leukemia		
2007132	BRAF V600E Mutation Detection in Hairy Cell Leukemia by Real-Time PCR, Quantitative	WB, BM	
	Lymphoproliferative Disorders (LPD)		
2002650	Lymphoma (Aggressive) Panel by FISH	BM, WB	
2002298	Trisomy 12 by FISH	WB, BM	
	Mantle Cell Non-Hodgkins Lymphoma		
2002298	IGH Rearrangement by FISH	WB, BM	
3001306	IGH-CCND1 Fusion, t(11;14) by FISH	Р	
2002298	IGH-CCND1 Fusion, t(11;14)(q13;q32) by FISH	WB, BM	
	Marginal Zone B-Cell Lymphoma		
2002298	MALT1 (18q21) gene rearrangement by FISH	BM, WB	
	Multiple Myeloma		
2002294	Multiple Myeloma Panel by FISH	BM, WB	
	Myelodysplastic Syndrome (MDS)		
2002298	20q Deletion (D20S108) del(20)(q12) by FISH	WB, BM	
2002298	5q Deletion (<i>EGR1</i>)/Monosomy 5 del(5)(q31)/-5 by FISH	WB, BM	
2002298	7q Deletion (<i>D7S486</i>)/Monosomy 7 del(7)(q31)/-7 by FISH	WB, BM	
2012222	Bone Marrow Failure Sequencing, 35 Genes	WB	
2010229	Cytogenomic Molecular Inversion Probe Array, FFPE Tissue—Oncology	Р	
2002709	Myelodysplastic Syndrome (MDS) Panel by FISH	BM, WB	
2011117	Myeloid Malignancies Panel by Next-Generation Sequencing	WB, BM	
2012182	Myeloid Malignancies Somatic Mutation and Copy Number Analysis Panel	WB, BM	
2002298	Trisomy 8 by FISH	WB, BM	
	Myeloproliferative Neoplasms (MPN)		
2010673	CALR (Calreticulin) Exon 9 Mutation Analysis by PCR	WB, BM	
2002378	Eosinophilia Panel by FISH	WB, BM	
2002357	JAK2 Exon 12 Mutation Analysis by PCR	BM, WB	
0051245	JAK2 Gene, V617F Mutation, Qualitative	BM, WB	
0040168	JAK2 Gene, V617F Mutation, Quantitative	WB	
2012085	JAK2 Gene, V617F Mutation, Qualitative with Reflex to JAK2 Exon 12 Mutation Analysis by PCR	WB, BM	
2012084	<i>JAK2</i> Gene, V617F Mutation, Qualitative with Reflex to <i>CALR</i> (Calreticulin) Exon 9 Mutation Analysis by PCR with Reflex to <i>MPL</i> codon 515 Mutation Detection by Pyrosequencing, Quantitative	WB, BM	
2005545	MPL Codon 515 Mutation Detection by Pyrosequencing, Quantitative	WB	
2011117	Myeloid Malignancies Mutation Panel by Next Generation Sequencing	WB, BM	

L	LYMPHOMA				
	Test#	Test Name	Specimen Type		
	2012182	Myeloid Malignancies Somatic Mutation and Copy Number Analysis Panel	WB, BM		
	2002360	Myeloproliferative Disorders Panel by FISH	BM, WB		
	2002298	PDGFRA-FIP1L1 Fusion by FISH (CHIC2 Deletion)	WB, BM		
	2002298	PDGFRB Rearrangement 5q33.1 by FISH	WB, BM		
	2002298	Trisomy 8 by FISH	WB, BM		
	2002298	Trisomy 9 by FISH	WB, BM		
	Primary Effusion Lymphoma				
	2002902	Epstein-Barr Virus (EBV) by in situ Hybridization, Paraffin	Р		

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P-paraffinized tissue

FNA-FNA smear

PL-plasma

TP-touch prep

WB-whole blood

UR-urine



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