



CENTER FOR
PRECISION DIAGNOSTICS

GERMLINE/HEREDITARY TESTS - 1 EDTA/Purple Top Tube, Whole Blood (EVEN IF MULTIPLE TESTS ORDERED)

Test	CPT	TAT days	Specimen Type
BRCA1 and BRCA2 Ashkenazi Jewish 3-Mutation Panel	81212, G0452	5-10	PB
BRCA1 and BRCA2 Sequencing and Full Deletions/ Duplications	81162, G0452	5-10	PB
BRCA1 and BRCA2 Full Deletion/ Duplication	81164, G0452	5-10	PB
Breast Cancer Risk Assessment and Management Panel (11 genes)	81162, 81321, 81323, 81406, G0452	5-10	PB
Customized Hereditary Cancer Testing (94 genes)	Call	5-10	PB
Cystic Fibrosis	81220, 81224 (poly T allele, reflex), G0452	5-7	PB
Factor V (Leiden)	81241, G0452	5-7	PB
Familial Mediterranean Fever (FMF)	81402, G0452	5-7	PB
Fragile X Syndrome	81243, G0452	5-7	PB
Hereditary Breast/Ovarian Cancer-Related Gene Sequence Analysis with deletion/duplication (20 genes)	81432, 81433, G0452	5-10	PB
Hereditary Colorectal/HNPCC Cancer Risk Panel (15 genes)	81435, 81436, G0452	5-10	PB
Hereditary Endometrial Cancer Risk Panel (18 genes)	81321, 81317, 81292, 81298, G0452	5-10	PB
Hereditary Familial Cutaneous Melanoma Risk Panel (2 genes)	81403, 81404, G0452	5-10	PB
Hereditary Hemochromatosis (HFE)	81256, G0452	5-7	PB
Hereditary Neuroendocrine Tumor Disorders Risk Panel (13 genes)	81437, 81438, G0452	5-10	PB
Known Familial Variant for BRCA1	81215, G0452	5-10	PB
Known Familial Variant for BRCA2	81217, G0452	5-10	PB
Methylenetetrahydrofolate reductase (MTHFR)	81291, G0452	5-7	PB
PGx- Cytochrome P450 2C19 (CYP2C19)	81225, G0452	5-7	PB
Prothrombin 20210 G -->A	81240, G0452	5-7	PB
Spinal Muscular Atrophy (aka SMA, Kennedy's Disease) Screening	81329, G0452	3-5	PB



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CYTOGENETICS			
Most tests require whole blood sodium heparin, dark green top tube, NO separator *Special instructions for Microarray			
Test	CPT	TAT days	Specimen Type
CYTOGENETICS ANALYSIS (CHROMOSOME)	<p><u>Pediatric/Adult (non-oncologic):</u> Blood: 88230, 88262, 88291 Tissue (such as skin biopsy): 88233, 88262, 88291</p> <p>Add 88289 for high resolution</p> <p><u>Prenatal:</u> Amniotic Fluid: 88235, 88269, 88280, 88285, 88291 CVS: 88235, 88267, 88280, 88285, 88291 POC: 88233, 88262, 88291</p> <p><u>Hematology/Oncology:</u> Blood, Bone Marrow & Lymph node: 88237x2, 88264, 88280, 88291 Tumor: 88239, 88264, 88280, 88291</p>	Specimen specific Refer to eLUG	PB - Sodium Heparin
CYTOGENETICS ANALYSIS (FISH)	<p><u>Pediatric/Adult (non-oncologic):</u> 88271x2, 88275, 88273</p> <p><u>Prenatal:</u> 88271x5, 88274x2</p> <p><u>Hematology/Oncology:</u> 88271x10, 88275x5</p>	Specimen specific Refer to eLUG	PB - Sodium Heparin or Special Urine Collection
CYTOGENETICS ANALYSIS (OTHER-SEND OUT)	Call lab for details	Varies	PB - Sodium Heparin
CYTOGENETICS ANALYSIS (MICROARRAY)	81229	Varies	Collect 2 tubes: 1 PB Sodium Heparin And 1 PB Lav
Y CHROMOSOME MICRODELETION	81403	Varies	PB



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MOLECULAR SPECIMEN EXAMS (ONCOLOGY)		Peripheral Blood (PB) - 1 EDTA/Purple Top	
Test	CPT	TAT days	Specimen Type
1p/19q Loss of Heterozygosity (LOH)	81405, G0452	5-7	PB
B Cell (IGH) Gene Rearrangement	81261, G0452	5-7	PB
BCR-ABL t(9;22), p210 kD, M-bcr (major breakpoint); CML	81206, G0452	3-5	PB
BCR-ABL t(9;22), p190 kD, m-bcr (minor breakpoint); ALL	81207, G0452	3-5	PB
BRAF Mutation Detection	81210, G0452 88381 may apply	5-10	Not performed on blood
Calreticulin (CALR) Mutation Analysis	81219, G0452	5-10	PB
CBFb/MYH11 inv(16); AML	81401, G0452	3-5	PB
Colorectal Cancer Panel (BRAF, KRAS, NRAS)	81210, 81275, 81276, 81311, G0452 88381 may apply	5-10	Not performed on blood
Comprehensive Solid Tumor Panel (170 genes)	Coming April 2019	TBD	Not performed on blood
De novo AML Panel (CEBPA, DNMT3A, FLT3, KIT, IDH1, IDH2, NPM1, RUNX1, TET2, TP53, WT1)	81450, G0452	5-10	PB
EGFR TKI Sensitivity and Resistance Mutations	81235 (88381 may apply) G0452	5-7	Not performed on blood
EGFRvIII mutation in Gliomas	81403, G0452	5-7	Not performed on blood
FLT3 Mutation Analysis	81245, 81246, G0452	5-10	PB
Fusion Sarcoma Panel- 26 genes	81445, G0452 (88381 may apply)	5-10	Not performed on blood
Fusion Solid Tumor Panel- 50 genes	81445, G0452 (88381 may apply)	5-10	Not performed on blood
Gastrointestinal Stromal Tumors Panel (KIT, PDGFRA)	81272, 81314, G0452, 88381 may apply	5-10	Not performed on blood
Gestational Disease Profile	81265, G0452	5-7	Not performed on blood
Hematolymphoid Neoplasm or Disorder Sequencing Panel (51 genes)	81455, G0452	5-10	PB
Her-2 IHC and Her-2/neu Gene Amplification Assay (FISH)	88360, 88377 (if indicated)	3-5	Not performed on blood
IDH 1/2 Mutation Detection	81120, 81121, G0452 (88381 may apply)	5-10	PB
JAK2 Mutation Analysis	81270, G0452	5-10	PB
KRAS mutation detection for Codon 12, 13, 61 and 146	81275, 81276, G0452 (88381 may apply)	5-10	Not performed on blood



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MOLECULAR SPECIMEN EXAMS (ONCOLOGY)		Peripheral Blood (PB) - 1 EDTA/Purple Top	
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Lung Cancer Testing	<p>Lung Cancer 6 gene panel: <i>BRAF, ERBB2, EGFR, KRAS, MET, NRAS</i> (81445) Reflex: ALK, ROS1 (FISH) (88377x2)</p> <p>Fusion testing: ALK,ROS1, RET, MET, NTRK1, NTRK2, NTRK3 (81445) IHC for PD-L1 22C3 or 28-2 (88360)</p> <p>Note: If 6 gene panel and fusion testing ordered together, only need 81445x1)</p>	5-10	Not performed on blood
Melanoma Panel	81445, G0452	5-10	Not performed on blood
MGMT Promoter Methylation in Gliomas	81287, G0452	5-7	Not performed on blood
Microsatellite Instability (MSI) Testing	MSI: 81301, G0452, 88381 may apply; IHC: 88341x3, 88342; Reflex to MLH1: 81288	5-7	Tissue OR Tissue and Blood
MLH1 Promoter Methylation Detection	81401, G0452	5-7	Not performed on blood
Myeloproliferative Neoplasm (MPN) Panel (CALR, JAK2, MPL)	81270, 81219, 81403, G0452	5-10	PB
NPM1 Mutation Analysis	81310, G0452	5-10	PB
NRAS Mutation Detection for Codons 12, 13 and 61	81311 (88381 may apply), G0452	5-10	Not performed on blood
PD-L1 (22C3 or 28-2) Expression by IHC	88360	3-5	Not performed on blood
PML-RARA t(15;17): APL	81315, G0452	3-5	PB
Solid Tumor Sequencing Panel (48 Genes)	81445, G0452. 88381 may apply.	5-10	Not performed on blood
T Cell Receptor Gene Rearrangement (gamma and beta)	81340 (beta), 81342 (gamma) G0452	5-7	PB
Tissue/Patient Identification by DNA Analysis (Non-paternity)	81265 (88381 may apply), G0452	5-7	PB or Tissue