

PATIENT INFORMATION					
Last Name	First Name	MI	Gender <input type="checkbox"/> Male <input type="checkbox"/> Female	DOB / /	E-mail Address
Address	City	State	Zip	Country	Phone

PHYSICIAN INFORMATION			Copy report to additional Physician		
			Name		
			Phone		
			E-mail Address		

During the course of testing, the specimen may be exhausted in an attempt to maximize yield. If you have any concerns please contact us prior submitting specimen for testing.	Authorized Signature	Date / /
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CLINICAL HISTORY – Please provide in detail and attach copies of patient history, previous pathology reports and other studies performed.

SPECIMEN INFORMATION					
Lavender Tops (EDTA) [#]	Specimen ID #	Tissue Source/Body Site	Biopsy/Surgical Procedure (Fine needle, excision, etc.)	Collection date / /	Collection time

CANCER PANELS (Refer to the back of the requisition for list of genes)

<p>NGS Solid tumor panels</p> <input type="checkbox"/> NGS-467 Comprehensive cancer panel* <input type="checkbox"/> NGS-50 Solid tumor panel* <input type="checkbox"/> NGS-20 Precision panel	<p>NGS Hematologic malignancies panels</p> <input type="checkbox"/> NGS-68 Hematologic malignancies panel <input type="checkbox"/> NGS-48 Hematologic malignancies panel
<p>Single gene analysis</p> <input type="checkbox"/> BRAF <input type="checkbox"/> EGFR <input type="checkbox"/> KRAS	<p>NGS Whole exome sequencing</p> <input type="checkbox"/> Cancer WHOLE EXOME analysis (~22,000 genes)
<p>Rearrangements/Amplification analysis by FISH</p> <input type="checkbox"/> ALK <input type="checkbox"/> ROS1 <input type="checkbox"/> Her-2/Neu	

* If DNA quantity is determined insufficient for the test selected, sample will be reflexed to the appropriate panel in an attempt to obtain results with less DNA. To opt-out from the reflex process please check this box

COMMENTS

SPECIMEN REQUIREMENTS				
Test	Material requirements	Minimum % tumor cells	Minimum tumor DNA	Transport conditions
NGS-467, NGS-50 & NGS-20	Surgical excision and biopsy specimens (needle core, transbronchial biopsy, etc.) 10 to 15 unstained sections on glass slides, plus corresponding H&E if available, from a formalin-fixed, paraffin-embedded (FFPE) tissue block; or 1 FFPE tissue block	NGS-467 > 20% NGS-50 > 30% NGS-20 > 10%	NGS-467 > 150 ng NGS-50 > 20 ng NGS-20 > 1 ng	Ship at ambient temperature (18-25°C/64-77°F) in an insulated container by courier. Do not heat or freeze.
NGS-68 & NGS-48 Only	3-5 cc of bone marrow aspirate in EDTA; or 3-5 cc of peripheral blood in EDTA tube (lavender top)	N/A	N/A	Ship at ambient temperature (18-25°C/64-77°F) in an insulated container by courier. Specimen should arrive in the laboratory within 72 hrs of collection. Do not heat or freeze.
Cancer WHOLE EXOME NGS	Fresh tumor tissue (6 µg DNA) and purple top peripheral blood sample	N/A	N/A	Ship at ambient temperature (18-25°C/64-77°F) in an insulated container by courier. Specimen should arrive in the laboratory within 72 hrs of collection. Do not heat or freeze.

Decalcified tissue cannot be processed for molecular assays

CANCER PANELS

Panel name	Description	Genes
NGS-467	Comprehensive cancer panel	AKT1, AKT2, AKT3, ALOX12B, AMER1, APC, AR, ARAF, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATM, ATR, ATRX, AURKA, AURKB, AXIN1, AXIN2, AXL, B2M, BAP1, BARD1, BBC3, BCL11B, BCL2L1, BCL2L11, BCL6, BCORL1, BLM, BMPR1A, BRCA1, BRCA2, BRCC3, BRIP1, BTK, BUB1B, CALR, CARD11, CASP8, CBLB, CBLC, CCND3, CCNE1, CD276, CD58, CD79A, CD79B, CDC45, CDC6, CDC7, CDC73, CDCA5, CDH1, CDK12, CDK4, CDK8, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CDT1, CEBPA, CHEK1, CHEK2, CNOT3, CREBBP, CRKL, CRLF2, CSF1R, CSF3R, CTCF, CTLA4, CUL3, CYLD, DAXX, DCUN1D1, DDB2, DDR2, DICER1, DIS3, DNM2, DNMT1, DNMT3A, DNMT3B, DOT1L, E2F3, ECT2L, EED, EGFL7, EGFR, EIF1AX, EPCAM, EPHA3, EPHA5, EPHB1, ERBB2, ERBB3, ERBB4, ERCC2, ERCC3, ERCC4, ERCC5, ESR1, EXT1, EXT2, EZH2, FAM175A, FAM46C, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, FAS, FAT1, FBXO11, FBXW7, FGF19, FGF3, FGF4, FGFR2, FGFR4, FH, FLCN, FLT1, FLT3, FLT4, FOXA1, FOXL2, FUBP1, FYN, GATA1, GATA2, GATA3, GMNN, GNA11, GNA13, GNAQ, GNAS, GNB1, GOPC, GREM1, GRID1, GRIN2A, GSK3B, H3F3A, H3F3C, HGF, HIST1H1C, HIST1H2BD, HIST1H3B, HNF1A, HRAS, ICOSLG, ID3, IDH1, IDH2, IFNGR1, IGF1, IGF1R, IGF2, IKBKE, IL10, IL6ST, IL7R, INPP4A, INPP4B, INSR, IRF1, IRF4, IRF8, IRS1, IRS2, JAK1, JAK3, JUN, KCNJ5, KDM5C, KDM6A, KDM6B, KDR, KEAP1, KIAA1549, KIT, KLF4, KLF6, KLHL6, KMT2C, KMT2D, KRAS, LAMB4, LATS1, LATS2, LMO1, LUC7L2, MAP2K1, MAP2K2, MAP2K4, MAP3K1, MAP3K13, MAPK1, MAX, MCL1, MCM2, MCM3, MCM4, MCM5, MCM6, MCM7, MDC1, MDM2, MDM4, MED12, MEF2B, MEN1, MET, MITF, MLH1, MPL, MRE11A, MSH2, MSH6, MTOR, MUTYH, MYC, MYCL, MYCN, MYD88, MYOD1, NBN, NCOR1, NF1, NF2, NFE2L2, NIPBL, NKX2-1, NKX3-1, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NRAS, NT5C2, NTRK2, PAK1, PAK7, PALB2, PARK2, PARP1, PBRM1, PDCD1, PDGFRA, PDPK1, PHF6, PHF8, PHOX2B, PIGA, PIK3C2G, PIK3C3, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIK3R3, PLK2, PMAIP1, PMS1, PMS2, PNRC1, POLE, POT1, PPP2R1A, PRDM1, PRF1, PRPF40B, PRPF8, PTCH1, PTEN, PTPN1, PTPN11, PTPRC, PTPRD, PTPRS, PTPRT, PTTG1, RAC1, RAD21, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RASA1, RB1, RBM10, RECQL4, REL, RFWD2, RHOA, RICTOR, RIT1, RNF43, RPL10, RPL5, RPS6KA4, RPS6KB2, RPTOR, RYBP, SBDS, SDHA, SDHAF2, SDHB, SDHC, SDHD, SETBP1, SETD2, SF1, SF3A1, SF3B1, SH2B3, SH2D1A, SHQ1, SMAD2, SMAD3, SMAD4, SMARCA4, SMARCB1, SMARCD1, SMARCE1, SMC1A, SMC3, SMO, SOCS1, SOX17, SOX2, SOX9, SPEN, SPOP, SRC, SRSF2, STAG1, STAG2, STAG3, STAT3, STAT5B, STAT6, STK11, STK40, SUFU, TP53BP1, TBL1XR1, TBX3, TCF3, TERT, TET1, TET2, TET3, TGFB1, TGFB2, TMEM127, TNFAIP3, TNFRSF14, TOPBP1, TP53, TP63, TRAF7, TSC1, TSC2, TSHR, U2AF1, U2AF2, UBR5, VHL, VTCN1, WAS, WRN, WT1, XIAP, XPA, XPC, XPO1, YAP1, YES1 and ZRSR2.
NGS-50	Solid tumor panel	ABL1, AKT1, ALK, APC, ATM, BRAF, CDH1, CDKN2A, CSF1R, CTNNB1, EGFR, ERBB2, ERBB4, EZF2, FBXW7, FGFR1, FGFR2, FGFR3, FLT3, GNA11, GNAQ, GNAS, HNF1A, HRAS, IDH1, IDH2, JAK2, JAK3, KDR, KIT, KRAS, MET, MLH1, MPL, NOTCH1, NPM1, NRAS, PDGFRA, PIK3CA, PTEN, PTPN11, RB1, RET, SMAD4, SMARCB1, SMO, SRC, STK11, TP53 and VHL.
NGS-20	Precision panel	AKT1, ALK, BRAF, CSF1R, EGFR, ERBB2, HRAS, IDH1, IDH2, KIT, KRAS, MET, MAP2K1, NOTCH1, NRAS, PDGFRA, PIK3CA, PTEN, RET and TP53.
NGS-68	Hematologic malignancies panel	ABL1, ASXL1, ATM, BCOR, BCORL1, BIRC3, BRAF, CALR, CBL, CDKN2A, CEBPA**, CSF1R, CSF3R, DDX3X, DNMT3A, ETV6, EZH2, FAM5C, FBXW7, FLT3, GATA2, GNAS, HNRNPK, IDH1, IDH2, IL7R, JAK2, KIT, KLHL6, KRAS, MAP2K1, MAPK1, MIR142, MPL, MYC, MYCN, MYD88, NF1, NOTCH1, NOTCH2, NPM1, NRAS, PDGFRA, PHF6, POT1, PRPF40B, PTEN, PTPN11, RAD21, RIT1, RUNX1, SETBP1, SF1, SF3A1, SF3B1, SMC1A, SRSF2, STAG2, TBL1XR1, TET2, TP53, TPMT, U2AF1, U2AF2, WT1, XPO1, ZMYM3, ZRSR2. <i>**CEBPA will be analyzed only when a diagnosis of AML is provided</i>
NGS-48	Hematologic malignancies panel	ABL1, ASXL1, BRAF, CBL, CDKN2A, CEBPA, CREBBP, CRLF2, CSF1R, CTCF, DNM2, DNMT3A, EED, EP300, ETV6, EZH2, FBXW7, FLT3, GATA1, HRAS, IDH1, IDH2, IKZF1, IKZF3, IL7R, JAK2, JAK3, KIT, KRAS, MPL, NOTCH1, NPM1, NRAS, PAX5, PDGFRA, PHF6, PTEN, PTPN11, RELN, RUNX1, SF3B1, SRSF2, SUZ12, TAL1, TET2, TP53, U2AF1 and WT1.
Reporting of Results	A final report will be available to the requesting physician on iLab Connect™ at http://www.precipiodx.com or on our iOS App: Precipio.	