



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY-DATAR CANCER GENETICS PRIVATE LIMITED, F-8, D-ROAD, AMBAD, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO 15189:2022

Certificate Number MC-5955 **Page No** 1 of 41

Validity 27/09/2024 to 01/09/2025 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CYTOPATHOLOGY	Blood	Circulating Tumor Cells Enumeration (Epcam, Panck, CD45)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
2	CYTOPATHOLOGY	Blood	Easycheck - Diabetes Cancer Screening Test. (EpCAM, PanCK, CD45, CA19.9, CA-IX, CDX2, CEA, CK19, CK20, CK7, GATA3, Glypican3, Hep-par1, Maspin, p63, PAX8, RCC, SATB2, Uroplakin II)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
3	CYTOPATHOLOGY	Blood	Easycheck - Femmesafe Cancer Screening Test. (EpCAM, PanCK, CD45, CA125, CEA, CK19, CK7, GATA3, GCDFP15, p16, p63, PAX8, WT1)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
4	CYTOPATHOLOGY	Blood	Easycheck - Prostate Cancer Screening Test. (EpCAM, PanCK, CD45, PSMA, AMACR)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
5	CYTOPATHOLOGY	Blood	EasyCheck 360 - MultiCancer Screening test (EpCAM, PanCK, CD45, CA IX, CA125, CA19.9, CDX2, CK20, CK7, GCDFP15, Hep Par-1, p40, PAX8, PSMA, Thyroglobulin, TTF1, Uroplakin II, AMACR, Calcitonin, CK5/6, CKHMW, GATA3, Maspin, MUC2, NapsinA, p16, RCC, SATB2, WT1, CEA, CK19, Glypican-3)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
6	CYTOPATHOLOGY	Blood	ER, PR, Her2 by Immunocytochemistry	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
7	CYTOPATHOLOGY	Blood	Estrogen receptor (ER) by Immunocytochemistry	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
8	CYTOPATHOLOGY	Blood	Her2 by Immunocytochemistry	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting



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9	CYTOPATHOLOGY	Blood	Immunocytochemistry (Theranostic Marker) (mTOR, VEGFA, VEGFR1, VEGFR2, EGFR)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
10	CYTOPATHOLOGY	Blood	Progesterone receptor (PR) by Immunocytochemistry	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
11	CYTOPATHOLOGY	Blood	Programmed death-ligand 1 (PDL-1) by Immunocytochemistry. {PDL-1 (Clone - 23C3)PDL-1 (Clone - 28-8)}	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
12	CYTOPATHOLOGY	Blood	Trublood - Kidney Cancer (EpCAM, PanCK, CD45, CA-IX, RCC, CD10, Pax8)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
13	CYTOPATHOLOGY	Blood	Trublood - Liver Cancer (EpCAM, PanCK, CD45, Arginase, AFP, HepPar1, Glypican3, CK7, CK19)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
14	CYTOPATHOLOGY	Blood	Trublood - Bladder Cancer (EpCAM, PanCK, CD45, Uroplakin-II, GATA3, CK20, CK7)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
15	CYTOPATHOLOGY	Blood	Trublood - Breast Cancer (EpCAM, PanCK, CD45, GATA3, GCDFP15, CK7)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
16	CYTOPATHOLOGY	Blood	Trublood - Cervical Cancer (EpCAM, PanCK, CD45, p63, p16, Ck7)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
17	CYTOPATHOLOGY	Blood	Trublood - CNS Cancer (EpCAM, PanCK, CD45, EMA, GFAP, Nestin, Olig2, S100)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
18	CYTOPATHOLOGY	Blood	Trublood - Colorectal Cancer (EpCAM, PanCK, CD45, CDX2, CK20, MUC2, SATB2)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
19	CYTOPATHOLOGY	Blood	Trublood - Esophageal cancer (EpCAM, PanCK, CD45, p63, CK5/6, CK7)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting



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20	CYTOPATHOLOGY	Blood	Trublood - Gallbladder Cancer (EpCAM, PanCK, CD45, CA19.9, Maspin, CK7, CK19)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
21	CYTOPATHOLOGY	Blood	Trublood - Head and Neck Cancer (EpCAM, PanCK, CD45, CKHMW, p63, CK5/6, p16, CK7)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
22	CYTOPATHOLOGY	Blood	Trublood - Lung Cancer (EpCAM, PanCK, CD45, Napsin A, TTF1, Chromogranin A, p63, p40)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
23	CYTOPATHOLOGY	Blood	Trublood - Ovarian Cancer (EpCAM, PanCK, CD45, CA125, WT1, PAX8, CK7, CK20)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
24	CYTOPATHOLOGY	Blood	Trublood - Pancreatic Cancer (EpCAM, PanCK, CD45, CA19.9, CK19, Maspin, CK7)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
25	CYTOPATHOLOGY	Blood	Trublood - Prostate Cancer (EpCAM, PanCK, CD45, PSMA, AMACR, p63)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
26	CYTOPATHOLOGY	Blood	Trublood -Stomach Cancer (EpCAM, PanCK, CD45, CDX2, CK7, CEA, MUC2)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
27	CYTOPATHOLOGY	Blood	Trublood -Thyroid Cancer (EpCAM, PanCK, CD45, TTF-1, Thyroglobulin, Calcitonin, CK19)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
28	CYTOPATHOLOGY	Blood	Trublood -Uterine Cancer (EpCAM, PanCK, CD45, CK19, PAX8, CEA, CK7)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting
29	HISTOPATHOLOGY	Small, Medium & Large Tissue	H&E Staining (Conventional)	Grossing, Processing, Microtomy, Microscopy with interpretation
30	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin fixed Paraffin embedded Tissue) / Fresh Tissue	Androgen receptor - AR	Immunohistochemistry (Automated)



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31	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin fixed Paraffin embedded Tissue) / Fresh Tissue	Estrogen receptor - ER	Immunohistochemistry (Automated)
32	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin fixed Paraffin embedded Tissue) / Fresh Tissue	Human epidermal growth factor receptor-2 - Her 2	Immunohistochemistry (Automated)
33	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin fixed Paraffin embedded Tissue) / Fresh Tissue	Microsatellite Instability Analysis - MLH1, MSH2, MSH6, PMS2	Immunohistochemistry (Automated)
34	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin fixed Paraffin embedded Tissue) / Fresh Tissue	ER, PR	Immunohistochemistry (Automated)
35	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	ER, PR, HER2	Immunohistochemistry (Automated)
36	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Progesterone receptor - PR	Immunohistochemistry (Automated)
37	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Programmed death-ligand 1 (PDL-1)	Immunohistochemistry (Automated)
38	MOLECULAR TESTING	Blood	Comprehensive Pharmacogenetics (ABCB1, ABCG2, BDKRB1, COMT, COQ2, CYP2B6, CYP2D6,F2, FCGR2A, G6PD, LTC4S, MTHFR, NUDT15, OPRM1,PRKCA, PTGS1, SLCO1B1, VKORC1, XPC, ABCC4, ACE, ADD1,AGTR1, APOE, C11orf65/ATM, CEP72, CYP2B6, CYP2C19,CYP2C9, CYP2D6, CYP3A4, CYP3A5, DPYD, DRD1, ERCC1, F5,FCGR3A, G6PD, GNB3, GP1BA, GSTP1, IFNL3, KCNJ11, NAT2,NEDD4L, NT5C2, OPRM1, PTGS2, SLCO1B1, TNF, TPMT,UGT1A1, UGT2B15, FDPS)	Next Generation Sequencing
39	MOLECULAR TESTING	Blood	BRCA 1+2 gene testing	Next Generation Sequencing : NGS testing of listed genes
40	MOLECULAR TESTING	Blood	BRCA 1+2 gene testing with MLPA (BRCA 1, BRCA 2, Deletion and Duplication of BRCA1 and BRCA2 by MLPA)	Next Generation Sequencing and Capillary electrophoresis: NGS testing of listed genes and Capillary electrophoresis for testing the Deletion and duplication of the listed genes



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41	MOLECULAR TESTING	Blood	Comprehensive Hereditary Cancer Panel. (Gene List: AKT1, ALK, APC, AR, ATM, ATR, AXIN2, BAP1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, BUB1B, CBL, CCND1, CDC73, CDH1, CDK12, CDK4, CDKN2A, CEBPA, CHEK1, CHEK2, CYLD, DDB2, DICER1, EGFR, EPCAM, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, EXT1, EXT2, EZH2, FANCA, FANCC, FANCD2, FANCF, FANCG, FGFR2, FH, FLCN, GALNT12, GATA1, GATA2, GREM1, HLF, HNF1A, HOXB13, HRAS, IKZF1, KIT, KRAS, MEN1, MET, MTF, MLH1, MLH3, MRE11A, MSH2, MSH6, MUTYH, MYH11, NBN)	Next Generation Sequencing and Capillary electrophoresis: NGS testing of listed genes and Capillary electrophoresis for testing the Deletion and duplication of the listed genes
42	MOLECULAR TESTING	Blood	Comprehensive Hereditary Cancer Panel. (Gene List: NF1, NF2, NRAS, NSD1, NTHL1, PALB2, PAX5, PDGFRA, PHOX2B, PIK3CA, PMS1, PMS2, POLD1, POLE, POT1, PRKAR1A, PTCH1, PTEN, PTPN11, RAD50, RAD51D, RB1, RECQL4, RET, RNASEL, RUNX1, SAMD9, SBDS, SDHA, SDHB, SDHC, SDHD, SMAD4, SMARCA4, SMARCB1, STK11, SUFU, TGFBR2, TP53, TSC1, TSC2, VHL, WRN, WT1, XPA, XPC, XRCC2, Deletion and Duplication of BRCA1, BRCA2)	Next Generation Sequencing and Capillary electrophoresis: NGS testing of listed genes and Capillary electrophoresis for testing the Deletion and duplication of the listed genes
43	MOLECULAR TESTING	Blood	DPYD Gene Mutation Detection	Next Generation Sequencing
44	MOLECULAR TESTING	Blood	EGFR T790M Mutation Detection (Droplet Digital PCR).	Droplet Digital PCR
45	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic (SNV & CNV Genes: FH, FLCN, FLI1, FLT1, FLT3, FLT4, FN1)	Next Generation Sequencing:



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46	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic (SNV & CNV Genes: CHEK1, CHEK2, CIC, CKS1B, CMPK1, COL1A1, CRBN, CREB1, CREBBP, CRKL, CRTCL, CSF1R, CSMD3, CTNNA1, CTNNB1, CYLD, CYP2C19, CYP2D6, DAXX, DCC, DDB2, DDIT3, DDR2, DEK, DICER1, DNMT3A, DPYD, DST, EGFR, EML4, EP300, EP400, EPHA3, EPHA7, EPHB1, EPHB4, EPHB6, ERBB2, ERBB3, ERBB4, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERG, ESR1, ETS1, ETV1, ETV4, EXT1, EXT2, EZH2, FAM123B, FANCA, FANCC, FANCD2, FANCF, FANCG, FAS, FBXW7, FGFR1, FGFR2, FGFR3, FGFR4)	Next Generation Sequencing
47	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic (SNV & CNV Genes: CDKN2A, CDKN2B, CDKN2C, CEBPA)	Next Generation Sequencing
48	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic (SNV & CNV Genes: FOXL2, FOXO1, FOXO3, FOXP1, FOXP4, FZR1, G6PD, GATA1, GATA2, GATA3, GDNF, GNA11, GNAQ, GNAS, GPR124, GRM8, GUCY1A2, HCAR1, HIF1A, HLF, HNF1A, HOOK3, HRAS, HSP1915AA1, HSP90AB1, ICK, IDH1, IDH2, IGF1R, IGF2, IGF2R, IKBKB, IKBKE, IKZF1, IL2, IL21R, IL6ST, IL7R, INGA, IRF4, IRS2, ITGA10, ITGA9, ITGB2, ITGB3, JAK1, JAK2, JAK3, JUN, KAT6A, KAT6B, KDM5C, KDM6A, KDR, KEAP1, KIT, KLF6, KRAS, LAMP1, LCK, LIFR, LPHN3, LPP, LRP1B, LTF, LTK, MAF,	Next Generation Sequencing



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49	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic(SNV & CNV Genes: MBD1, MCL1, MDM2, MDM4, MEN1, MET, MITF, MLH1,MLL, MLL2,MLL3,MLLT10,MMP2,MN1, MPL,MRE11A,MSH2,MSH6, MTOR, MTR,MTRR, MUC1, MUTYH, MYB,MYC,MYCL1,MYCN,MYD88,MYH11 ,MYH9,NBN,NCOA2, NCOA4, NF1, NF2, NFE2L2, NFKB1, NFKB2, NIN, NKX2-1, NLRP1,NOTCH1, NOTCH2, NOTCH4, NPM1,NRAS, NSD1,NTRK1,NTRK3,NUMA1,NUP214, NUP98, PAK3, PALB2, PARP1, PAX3, PAX5, PAX7, PAX8, PBRM1, PBX1, PDE4DIP, PDGFB, PDGFRA,PDGFRB,PER1,PGAP3, PHOX2B,PIK3C2B, PIK3CA,PIK3CB)	Next Generation Sequencing
50	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic(SNV & CNV Genes: TNFAIP3, TNFRSF14, TNK2, TOP1, TP53, TPR, TRIM24,TRIM33, TRIP11, TRRAP, TSC1, TSC2, TSHR, UBR5, UGT1A1,USP9X, VHL,WAS, WHSC1,WRN, WT1, XPA, XPC, XPO1, XRCC2, ZNF384, ZNF521.Fusion Genes: ALK, BRAF, ERG, ETV1, FGFR1, FGFR2, FGFR3, MET, NTRK1, NTRK3, RET, ROS1. Antibody Details - Immunocytochemistry EPCAM ,CK , CD45 , mTOR , VEGFR1, VEGFR2,VEGFA, EGFR. Chemosensitive drugs)	Next Generation Sequencing



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51	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: ABL1, ABL2, ACVR2A, ADAMTS20, AFF1, AFF3, AKAP9, AKT1, AKT2, AKT3, ALK, APC, AR, ARAF, ARID1A, ARID2, ARNT, ASXL1, ATF1, ATM, ATR, ATRX, AURKA, AURKB, AURKC, AXL, BAI3, BAP1, BCL10, BCL11A, BCL11B, BCL2, BCL2L1, BCL2L2, BCL3, BCL6, BCL9, BCR, BIRC2, BIRC3, BIRC5, BLM, BLNK, BMPR1A, BRAF, BRD3, BRIP1, BTK, BUB1B, CARD11, CASC5, CBL, CCND1, CCND2, CCND3, CCNE1, CD79A, CD79B, CDC73, CDH1, CDH11, CDH2, CDH20, CDH5, CDK12, CDK4, CDK6, CDK8)	Next Generation Sequencing
52	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: GDNF, GNA11, GNAQ, GNAS, GPR124, GRM8, GUCY1A2, HCAR1, HIF1A, HLF, HNF1A, HOOK3, HRAS, HSP1915AA1, HSP90AB1, ICK, IDH1, IDH2, IGF1R, IGF2, IGF2R, IKBKB, IKBKE, IKZF1, IL2, IL21R, IL6ST, IL7R, ING4, IRF4, IRS2, ITGA10, ITGA9, ITGB2, ITGB3, JAK1, JAK2, JAK3, JUN, KAT6A, KAT6B, KDM5C, KDM6A, KDR, KEAP1, KIT, KLF6, KRAS, LAMP1, LCK, LIFR, LPHN3, LPP, LRP1B, LTF, LTK, MAF, MAFB, MAGEA1, MAGI1, MALT1, MAML2, MAP2K1, MAP2K2, MAP2K4)	Next Generation Sequencing
53	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: MLL3, MLLT10, MMP2, MN1, MPL, MRE11A, MSH2, MSH6, MTOR, MTR, MTRR, MUC1, MUTYH, MYB, MYC, MYCL1, MYCN, MYD88, MYH11, MYH9, NBN, NCOA1, NCOA2, NCOA4, NF1, NF2, NFE2L2, NFKB1, NFKB2, NIN, NKX2-1, NLRP1, NOTCH1, NOTCH2, NOTCH4, NPM1, NRAS, NSD1, NTRK1, NTRK3, NUMA1, NUP214, NUP98, PAK3, PALB2, PARP1, PAX3, PAX5, PAX7, PAX8, PBRM1, PBX1, PDE4DIP, PDGFB, PDGFRA, PDGFRB, PER1, PGAP3, PHOX2B, PIK3C2B, PIK3CA, PIK3CB, PIK3CD, PIK3CG)	Next Generation Sequencing,



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54	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: PRKDC, PSIP1, PTCH1, PTEN, PTGS2, PTPN11, PTPRD, PTPRT, RAD50, RAF1, RALGDS, RARA, RB1, RECQL4, REL, RET, RHOH, RNASEL, RNF2, RNF213, ROS1, RPS6KA2, RRM1, RUNX1, RUNX1T1, SAMD9, SBDS, SDHA, SDHB, SDHC, SDHD, SEPT9, SETD2, SF3B1, SGK1, SH2D1A, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SMUG1, SOCS1, SOX11, SOX2, SRC, SSX1, STK11, STK36, SUFU, SYK, SYNE1, TAF1, TAF1L, TAL1, TBX22, TCF12, TCF3, TCF7L1, TCF7L2, TCL1A, TET1, TET2, TFE3)	Next Generation Sequencing
55	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive(SNV & CNV Genes: TP53, TPR, TRIM24, TRIM33, TRIP11, TRRAP, TSC1, TSC2, TSHR, UBR5, UGT1A1, USP9X, VHL, WAS, WHSC1, WRN, WT1, XPA, XPC, XPO1, XRCC2, ZNF384, ZNF521. Fusion Genes: ALK, BRAF, ERG, ETV1, FGFR1, FGFR2, FGFR3, MET, NTRK1, NTRK3, RET, ROS1. Gene Expression: 20802 mRNA. Pharmacogenetics: ABCB1, CEP72, CYP2D6, CYP2C9, DPYD, ERCC1, FCGR2A, FCGR3A, G6PD, GSTP1, MTHFR, NT5C2, NUDT15, TPMT, UGT1A1, XPC.)	Next Generation Sequencing
56	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis-Basic (SNV & CNV Genes: ABL1, ABL2, ACVR2A, ADAMTS20, AFF1, AFF3, AKAP9, AKT1, AKT2, AKT3, ALK, APC, AR, ARAF, ARID1A, ARID2, ARNT, ASXL1, ATF1, ATM, ATR, ATRX, AURKA, AURKB, AURKC, AXL, BAI3, BAP1, BCL10, BCL11A, BCL11B, BCL2, BCL2L1, BCL2L2, BCL3, BCL6, BCL9, BCR, BIRC2, BIRC3, BIRC5, BLM, BLNK, BMPR1A, BRAF, BRD3, BRIP1, BTK, BUB1B, CARD11, CASC5, CBL, CCND1, CCND2, CCND3, CCNE1, CD79A, CD79B, CDC73, CDH1, CDH11, CDH2, CDH20, CDH5, CDK12, CDK4, CDK6, CDK8)	Next Generation Sequencing



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57	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis-Comprehensive(SNV & CNV Genes: CIC, CKS1B, CMPK1, COL1A1, CRBN, CREB1, CREBBP, CRKL, CRTCL, CSF1R, CSMD3, CTNNA1, CTNNB1, CYLD, CYP2C19, CYP2D6, DAXX, DCC, DDB2, DDIT3, DDR2, DEK, DICER1, DNMT3A, DPYD, DST, EGFR, EML4, EP300, EP400, EPHA3, EPHA7, EPHB1, EPHB4, EPHB6, ERBB2, ERBB3, ERBB4, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERG, ESR1, ETS1, ETV1, ETV4, EXT1, EXT2, EZH2, FAM123B, FANCA, FANCC, FANCD2, FANCF, FANCG, FAS, FBXW7, FGFR1, FGFR2, FGFR3, FGFR4, FH,FLCN)	Next Generation Sequencing
58	MOLECULAR TESTING	Blood	Liquid Biopsy (ctDNA and CTC) (Fusion Genes: ALK, BRAF, ERG, ETV1, FGFR1, FGFR2, FGFR3, MET, NTRK1, NTRK3, RET, ROS1. CNV Genes: CCND1, CCND2, CCND3, CDK4, CDK6, EGFR, ERBB2, FGFR1, FGFR2, FGFR3, MET, MYC. CTC markers: Epcam, PanCK, CD45)	Next Generation Sequencing and Circulating Tumor Cells
59	MOLECULAR TESTING	Blood	Liquid Biopsy (ctDNA and CTC) (SNV Genes: AKT1, ALK, APC, AR, ARAF, BRAF, CHEK2, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, ESR1, FBXW7, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, GNA11, GNAQ, GNAS, HRAS, IDH1, IDH2, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, NTRK1, NTRK3, PDGFRA, PIK3CA, PTEN, RAF1, RET, ROS1, SF3B1, SMAD4, SMO, TP53)	Next Generation Sequencing and Circulating Tumor Cells



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60	MOLECULAR TESTING	Blood	Liquid Biopsy for Solid Tumors (SNV Genes: AKT1, ALK, APC, AR, ARAF, BRAF, CHEK2, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, ESR1, FBXW7, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, GNA11, GNAQ, GNAS, HRAS, IDH1, IDH2, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, NTRK1, NTRK3, PDGFRA, PIK3CA, PTEN, RAF1, RET, ROS1, SF3B1, SMAD4, SMO, TP53. Fusion Genes: ALK, BRAF, ERG, ETV1, FGFR1, FGFR2, FGFR3, MET, NTRK1, NTRK3, RET, ROS1. CNV Genes: CCND1, CCND2, CCND3, CDK4, CDK6, EGFR, ERBB2, FGFR1, FGFR2, FGFR3, MET, MYC)	Next Generation Sequencing
61	MOLECULAR TESTING	Blood	Liquid biopsy with Tumor Mutation Burden (Gene List: ABL1, ABL2, ACVR2A, ADAMTS20, AFF1, AFF3, AKAP9, AKT1, AKT2, AKT3, ALK, APC, AR, ARID1A, ARID2, ARNT, ASXL1, ATF1, ATM, ATR, ATRX, AURKA, AURKB, AURKC, AXL, BAI3, BAP1, BCL10, BCL11A, BCL11B, BCL2, BCL2L1, BCL2L2, BCL3, BCL6, BCL9, BCR, BIRC2, BIRC3, BIRC5, BLM, BLNK, BMPR1A, BRAF, BRD3, BTK, BUB1B, CARD11, CASC5, CBL, CCND1, CCND2, CCNE1, CD79A, CD79B, CDC73, CDH1, CDH11, CDH2, CDH20, CDH5, CDK12, CDK4, CDK6, CDK8, CDKN2A, CDKN2B, CDKN2C, CEBPA, CHEK1, CHEK2, CIC)	Next Generation Sequencing



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62	MOLECULAR TESTING	Blood	Liquid biopsy with Tumor Mutation Burden (Gene List: CKS1B, CMPK1, COL1A1, CRBN, CREB1, CREBBP, CRKL, CRTCL, CSF1R, CSMD3, CTNNA1, CTNNB1, CYLD, CYP2C19, CYP2D6, DAXX, DCC, DDB2, DDIT3, DDR2, DEK, DICER1, DNMT3A, DPYD, DST, EGFR, EML4, EP300, EP400, EPHA3, EPHA7, EPHB1, EPHB4, EPHB6, ERBB2, ERBB3, ERBB4, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERG, ESR1, ETS1, ETV1, ETV4, EXT1, EXT2, EZH2, FAM123B, FANCA, FANCC, FANCD2, FANCF, FANCG, FANCI, FAS, FBXW7, FGFR1, FGFR2, FGFR3, FGFR4, FH, FLCN, FLI1, FLT1, FLT3, FLT4, FN1, FOXL2, FOXO1, FOXO3, FOXP1, FOXP4, FZR1, G6PD, GATA1, GATA2, GATA3)	Next Generation Sequencing
63	MOLECULAR TESTING	Blood	Liquid biopsy with Tumor Mutation Burden (Gene List: GDNF, GNA11, GNAQ, GNAS, GPR124, GRM8, GUCY1A2, HCAR1, HIF1A, HLF, HNF1A, HOOK3, HRAS, HSP90AA1, HSP90AB1, ICK, IDH1, IDH2, IGF1R, IGF2, IGF2R, IKBKB, IKBKE, IKZF1, IL2, IL21R, IL6ST, IL7R, ING4, IRF4, IRS2, ITGA10, ITGA9, ITGB2, ITGB3, JAK1, JAK2, JAK3, JUN, KAT6A, KAT6B, KDM5C, KDM6A, KDR, KEAP1, KIT, KLF6, KRAS, LAMP1, LCK, LIFR, LPHN3, LPP, LRP1B, LTF, LTK, MAF, MAFB, MAGEA1, MAGI1, MALT1, MAML2, MAP2K1, MAP2K2, MAP2K4, MAP3K7, MAPK1, MAPK8, MARK1, MARK4, MBD1, MCL1, MDM2, MDM4, MEN1, MET, MITF, MLH1, MLL, MLL2)	Next Generation Sequencing



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64	MOLECULAR TESTING	Blood	Liquid biopsy with Tumor Mutation Burden (Gene List: MLL3, MLLT10, MMP2, MN1, MPL, MRE11A, MSH2, MSH6, MTOR, MTR, MTRR, MUC1, MUTYH, MYB, MYC, MYCL1, MYCN, MYD88, MYH11, MYH9, NBN, NCOA1, NCOA2, NCOA4, NF1, NF2, NFE2L2, NFKB1, NFKB2, NIN, NKX2-1, NLRP1, NOTCH1, NOTCH2, NOTCH4, NPM1, NRAS, NSD1, NTRK1, NTRK3, NUMA1, NUP214, NUP98, PAK3, PALB2, PARP1, PAX3, PAX5, PAX7, PAX8, PBRM1, PBX1, PDE4DIP, PDGFB, PDGFRA, PDGFRB, PER1, PGAP3, PHOX2B, PIK3C2B, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIM1, PKHD1, PLAG1, PLCG1, PLEKHG5, PML, PMS1, PMS2, POT1)	Next Generation Sequencing
65	MOLECULAR TESTING	Blood	Liquid biopsy with Tumor Mutation Burden (Gene List: POU5F1, PPARG, PPP2R1A, PRDM1, PRKAR1A, PRKDC, PSIP1, PTCH1, PTEN, PTGS2, PTPN11, PTPRD, PTPRT, RAD50, RAF1, RALGDS, RARA, RB1, RECQL4, REL, RET, RHOH, RNASEL, RNF2, RNF213, ROS1, RPS6KA2, RRM1, RUNX1, RUNX1T1, SAMD9, SBDS, SDHA, SDHB, SDHC, SDHD, SEPT9, SETD2, SF3B1, SGK1, SH2D1A, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SMUG1, SOCS1, SOX11, SOX2, SRC, SXX1, STK11, STK36, SUFU, SYK, SYNE1, TAF1, TAF1L, TAL1, TBX22, TCF12, TCF3, TCF7L1, TCF7L2, TCL1A, TET1)	Next Generation Sequencing
66	MOLECULAR TESTING	Blood	Liquid biopsy with Tumor Mutation Burden (Gene List: TET2, TFE3, TGFBR2, TGM7, THBS1, TIMP3, TLR4, TLX1, TNFAIP3, TNFRSF14, TNK2, TOPI1, TP53, TPR, TRIM24, TRIM33, TRIP11, TRRAP, TSC1, TSC2, TSHR, UBR5, UGT1A1, USP9X, VHL, WAS, WHSC1, WRN, WT1, XPA, XPC, XPO1, XRCC2, ZNF384, ZNF521. Fusions: ALK, BRAF, ERG, ETV1, FGFR1, FGFR2, FGFR3, MET, NTRK1, NTRK3, RET, ROS1)	Next Generation Sequencing



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67	MOLECULAR TESTING	Blood	Men's Hereditary Cancer Panel: Prostate and Colorectal (APC, ATM, AXIN2, BLM, BMPR1A, CDH1, CHEK2, EPCAM, FANCA, GALNT12, GREM1, HOXB13, MLH1, MLH3, MSH2, MSH6, MUTYH, NBN, NTHL1, PALB2, PMS2, POLD1, POLE, PTEN, RAD51D, SMAD4, STK11, TP53, Deletion and Duplication of BRCA1, BRCA2.)	Next Generation Sequencing and Capillary electrophoresis: NGS testing of listed genes and Capillary electrophoresis for testing the Deletion and duplication of the listed genes
68	MOLECULAR TESTING	Blood	PIK3CA liquid biopsy	Next Generation Sequencing
69	MOLECULAR TESTING	Blood	UGT1A1 Genotyping for Gilbert Syndrome	Capillary electrophoresis
70	MOLECULAR TESTING	Blood	Women's Hereditary Cancer Panel: Breast, Ovary and Endometrium.(ATM, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, EPCAM, FGFR2, MLH1, MRE11A, MSH2, MSH6, MUTYH, NBN, NF1, PALB2, PMS2, PTEN, RAD51C, RAD51D, STK11, TP53, XRCC1, XRCC2, Deletion and Duplication of BRCA1, BRCA2)	Next Generation Sequencing and Capillary electrophoresis: NGS testing of listed genes and Capillary electrophoresis for testing the Deletion and duplication of the listed genes
71	MOLECULAR TESTING	Blood / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Basic (Full Exon Coverage: PPM1D, PPP2R2A, PRDM1, PRDM9, PRKAR1A, PSMB10#, PSMB8#, PSMB9#, PTCH1, PTEN, PTPRT, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RASA1, RASA2, RB1, RBM10, RECQL4, RNASEH2A, RNASEH2B, RNASEH2C#, RNF43, RPA1, RPL22#, RPL5#, RUNX1, RUNX1T1#, SDHA, SDHB, SDHC#, SDHD, SETD2, SLX4, SMAD2, SMAD4, SMARCA4, SMARCB1, SOCS1#, SOX9, SPEN, STAG2, STAT1#, STK11, SUFU, TAP1, TAP2, TBX3, TCF7L2, TET2, TGFBR2, TMEM132D#, TNFAIP3, TNFRSF14)	Next Generation Sequencing



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72	MOLECULAR TESTING	Blood / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Basic (Fusion AKT2, ALK, AR, AXL, BRAF, BRCA1, BRCA2, CDKN2A, EGFR, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PPARG, PRKACA, PRKACB, PTEN, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, TERT. Antibody Details - Immunocytochemistry EPCAM ,CK , CD45 , mTOR , VEGFR1, VEGFR2, VEGFA, EGFR. Chemosensitive drugs)	Next Generation Sequencing
73	MOLECULAR TESTING	Blood / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Basic (Hotspot / CNV: PIM1, PLCG1, PPP2R1A, PPP6C, PRKACA, PTPN11, PTPRD*, PXDNL, RAC1, RAF1, RARA, RET, RGS7*, RHEB, RHOA*, RICTOR, RIT1, ROS1, RPL10*, RPS6KB1**, RPTOR**, SETBP1, SF3B1, SIX1*, SIX2*, SLCO1B3, SMC1A, SMO, SNCAIP*, SOS1*, SOX2*, SPOP, SRC, SRSF2*, STAT3, STAT5B*, STAT6, TAF1*, TERT, TGFBR1*, TOP1, TPMT, TRRAP*, TSHR*, U2AF1, USP8, WAS*, XPO1, YAP1**, *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
74	MOLECULAR TESTING	Blood / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Comprehensive (Full Exon Coverage: ARID2, ARID5B, ASXL1, ASXL2, ATM, ATR, ATRX, AXIN1, AXIN2, B2M, BAP1, BARD1, BCOR, BLM, BLMR2, BRCA1, BRCA2, BRIP1, CALR#, CASP8, CBFEB, CD274, CD276, CDC73, CDH1, CDH10, CDK12, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CHEK1, CHEK2, CIC, CIITA#, CREBBP, CSMD3, CTCF, CTLA4, CUL3, CUL4A *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing



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75	MOLECULAR TESTING	Blood / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis Basic (Hotspot / CNV: ABCB1**, ABL1, ABL2, ACVR1*, AKT1, AKT2, AKT3, ALK, AR, ARAF, ATP1A1*, AURKA, AURKC, AXL, BCL2, BCL2L12, BCL6, BCR*, BMP5*, BRAF, BTK*, CACNA1D*, CARD11, CBL, CCND1, CCND2, CCND3, CCNE1, CD79B*, CDK4, CDK6, CHD4, CSF1R* *Only Hotspot; ** Only CNV; # NoCNV)	Next Generation Sequencing
76	MOLECULAR TESTING	Blood / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Lung Cancer Panel - (SNV Genes: ALK, BRAF, EGFR, ERBB2, KRAS, MAP2K1, MET, NRAS, PIK3CA, ROS1, TP53, Met and exon 14 skipping.Fusion Genes: ALK, RET, ROS1.Gene Amplifications: EGFR, ERBB2)	Next Generation Sequencing
77	MOLECULAR TESTING	Blood / FFPE (Formalin-fixed Paraffin-embedded Tissue).	Encyclopedic Tumor Analysis - Basic(Full Exon Coverage: FANCM, FAS#, FAT1, FBXW7, FUBP1, GATA3, GNA13, GPS2, HDAC2, HDAC9, HLA-A, HLA-B, HNF1A, ID3#, INPP4B, JAK1, JAK2, JAK3, KDM5C, KDM6A, KEAP1, KLHL13#, KMT2A, KMT2B, KMT2C, KMT2D, LARP4B, LATS1, LATS2, MAP2K4, MAP2K7, MAP3K1, MAP3K4, MAPK8, MEN1, MGA, MLH1, MLH3, MRE11, MSH2, MSH3, MSH6, MTAP, MTUS2#, MUTYH, NBN, NCOR1, NF1, NF2, NOTCH1, NOTCH2, NOTCH3, NOTCH4, PALB2, PARP1, PARP2, PARP3, PARP4, PBRM1, PDCD1, PDCD1LG2, PDIA3, PGD, PHF6)	Next Generation Sequencing
78	MOLECULAR TESTING	Blood / Fresh Tissue	Chemosensitivity Test - (Chemosensitive Drugs: 5 Fluorouracil/Capacitabine, Aspirin, Atorvastatin, Bleomycin, Bromelain, Busulfan, Cabazitaxel, Carboplatin, Celecoxib, Chloroquine, Cisplatin, Curcumin, Cyclophosphamide, Dacarbazine, Dactinomycin, Docetaxel, Doxorubicin, Doxycycline, Epirubicin, Eribulin, Etoposide, Gemcitabine, Glibenclamide, Ifosfamide, Irinotecan, Lomustine, Melatonin, Melphalan, Metformin, Methotrexate, Mitomycin, Mitoxantrone)	Cytotoxicity Testing Assay



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79	MOLECULAR TESTING	Blood / Fresh Tissue	Chemosensitivity Test - (Oxaliplatin, Paclitaxel, Pantoprazole, Pemetrexed, Propranolol, Quercetin, Resveratrol, Streptozocin, Temozolomide, Thiotepe, Topotecan, Trabectedin, Trifluridine, Vinblastine, Vincristine, Vinorelbine, Apigenin, Artesunate, Cannabidiol, Dichloroacetate, Diflunisal, DMSO, Epigallocatechingallat, Genistein, Glutathione, Helixor A, Helixor M, Helixor P, Hypericin, Indol-3-carbinol, Iscador P, Iscador Qu, Vitamin C)	Cytotoxicity Testing Assay
80	MOLECULAR TESTING	Blood / Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Basic(Hotspot / CNV: FLT4, FOXA1, FOXL2*, FOXO1*, FYN**, GATA2, GLI1*, GLI3**, GNA11*, GNAQ*, GNAS, H3F3A, H3F3B, HIF1A*, HIST1H2BD*, HIST1H3B*, HRAS*, IDH1*, IDH2, IGF1R**, IKBKB, IL6ST*, IL7R, IRF4*, IRS4*, KDR, KIT, KLF4*, KLF5, KNSTRN*, KRAS, MAGOH, MAP2K1, MAP2K2*, MAPK1, MAX, MCL1**, MDM2**, *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
81	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Comprehensive (Hotspot / CNV ABCB1**, ABL1, ABL2, ACVR1*, AKT1, AKT2, AKT3, ALK, AR, ARAF, ATP1A1*, AURKA, AURKC, AXL, BCL2, BCL2L12, BCL6, BCR*, BMP5*, BRAF, BTK*, CACNA1D*, CARD11, CBL, CCND1, CCND2, CCND3, CCNE1, CD79B*, CDK4, CDK6, CHD4, CSF1R*, CTNNB1*, *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
82	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Comprehensive (Hotspot / CNV: FGFR1, FGFR2, FGFR3, FGFR4, FLT3, FLT4, FOXA1, FOXL2*, FOXO1*, FYN**, GATA2, GLI1*, GLI3**, GNA11*, GNAQ*, GNAS, H3F3A, H3F3B, HIF1A*, HIST1H2BD*, HIST1H3B*, HRAS*, IDH1*, IDH2, IGF1R**, IKBKB, IL6ST*, IL7R, IRF4*, IRS4*, KDR, KIT, KLF4*, KLF5, KNSTRN*, KRAS, MAGOH, MAP2K1, MAP2K2*, *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing



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83	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Comprehensive {Fusion AKT2, ALK, AR, AXL, BRAF, BRCA1, BRCA2, CDKN2A, EGFR, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PPARG, PRKACA, PRKACB, PTEN, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, TERT. Gene Expression: 20802 mRNA.}	Next Generation Sequencing,
84	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Comprehensive {Pharmacogenetics: ABCB1, CEP72, CYP2D6, CYP2C9, DPYD, ERCC1, FCGR2A, FCGR3A, G6PD, GSTP1, MTHFR, NT5C2, NUDT15, TPMT, UGT1A1, XPC. Antibody Details - Immunocytochemistry EPCAM, CK, CD45, mTOR, VEGFR1, VEGFR2, VEGFA, EGFR. Antibody Details - Immunohistochemistry MLH1, MSH2, MSH6, PMS2, PD-L1 - 28-8, PD-L1 - 22C3, ER, PR, Her2, AR (as per cancer type), Chemosensitive drugs}	Next Generation Sequencing
85	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Comprehensive (Full Exon Coverage: FANCF, FANCG, FANCI, FANCL, FANCM, FAS#, FAT1, FBXW7, FUBP1, GATA3, GNA13, GPS2, HDAC2, HDAC9, HLA-A, HLA-B, HNF1A, ID3#, INPP4B, JAK1, JAK2, JAK3, KDM5C, KDM6A, KEAP1, KLHL13#, KMT2A, KMT2B, KMT2C, KMT2D, LARP4B, LATS1 *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing



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86	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis- Comprehensive (Full Exon Coverage: PMS2, POLD1, POLE, POT1, PPM1D, PPP2R2A, PRDM1, PRDM9, PRKAR1A, PSMB10#, PSMB8#, PSMB9#, PTCH1, PTEN, PTPRT, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RASA1, RASA2, RB1, RBM10, RECQL4, RNASEH2A, RNASEH2B, RNASEH2C#, RNF43, RPA1, RPL22#, RPL5#, RUNX1, RUNX1T1#, SDHA, SDHB, SDHC#, SDHD, SETD2, SLX4, *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
87	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Microsatellite Instability Analysis - STR	Capillary electrophoresis
88	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)....	Encyclopedic Tumor Analysis - Comprehensive (Hotspot / CNV: PIK3CB, PIK3CD*, PIK3CG*, PIK3R2, PIM1, PLCG1, PPP2R1A, PPP6C, PRKACA, PTPN11, PTPRD*, PXDNL, RAC1, RAF1, RARA, RET, RGS7*, RHEB, RHOA*, RICTOR, RIT1, ROS1, RPL10*, RPS6KB1**, RPTOR**, SETBP1, SF3B1, SIX1*, SIX2*, SLC01B3, SMC1A, *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
89	MOLECULAR TESTING	Blood/ FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Basic(Full Exon Coverage: ATM,ATR, ATRX,AXIN1,AXIN2,B2M,BAP1,BARD1, BCOR, BLM,BMPR2,BRCA1,BRCA2, BRIP1,CALR#,CASP8,CBFB,CD274, CD276, CDC73, CDH1,CDH10,CDK12,CDKN1A, CDKN1B, CDKN2A,CDKN2B,CDKN2C,CHEK1,CH EK2,CIC, CIITA#,CREBBP,CSMD3,CTCF,CTLA4,C UL3,CUL4A,CUL4B,CYLD,CYP2C9, CYP2D6#,DAXX,DDX3X,DICER1,DNMT 3A,DOCK3, DPYD,DSC1, DSC3, ELF3, ENO1, EP300,EPCAM,EPHA2,ERAP1,ERAP2,E RCC2,ERCC4,ERCC5#,ERRFI1,ETV6, FANCA,FANCC, FANCD2,FANCE, FANCF,FANCG,FANCI, FANCL.*Only Hotspot;**	Next Generation Sequencing



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90	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	BRCA 1+2 Gene Testing (Somatic)	Next Generation Sequencing
91	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Celldx - (Targeted and Immunotherapy Evaluation) (Full Exon Coverage: BCOR, BLM, BMPR2, BRCA1, BRCA2, BRIP1, CALR#, CASP8, CBFβ, CD274, CD276, CDC73, CDH1, CDH10, CDK12, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CHEK1, CHEK2, CIC, CIITA#, CREBBP, CSMD3, CTCF, CTLA4, CUL3, CUL4A, CUL4B, CYLD, CYP2C9, CYP2D6#, DAXX, DDX3X, DICER1, DNMT3A, DOCK3, DPYD, DSC1, DSC3, ELF3, ENO1, EP300, EPCAM, EPHA2, ERAP1, ERAP2, ERCC2, ERCC4, ERCC5#, ERFF1, ETV6, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS#, FAT1, FBXW7, FUBP1, GATA3, GNA13, GPS2. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing, Capillary electrophoresis and Immunohistochemistry
92	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Celldx - (Targeted and Immunotherapy Evaluation) (Full Exon Coverage: HDAC2, HDAC9, HLA-A, HLA-B, HNF1A, ID3#, INPP4B, JAK1, JAK2, JAK3, KDM5C, KDM6A, KEAP1, KLHL13#, KMT2A, KMT2B, KMT2C, KMT2D, LARP4B, LATS1, LATS2, MAP2K4, MAP2K7, MAP3K1, MAP3K4, MAPK8, MEN1, MGA, MLH1, MLH3, MRE11, MSH2, MSH3, MSH6, MTAP, MTUS2#, MUTYH, NBN, NCOR1, NF1, NF2, NOTCH1, NOTCH2, NOTCH3, NOTCH4, PALB2, PARP1, PARP2, PARP3, PARP4, PBRM1, PDCD1, PDCD1LG2, PDIA3, PGD, PHF6, PIK3R1, PMS1, PMS2, POLD1, POLE, POT1, PPM1D, PPP2R2A, PRDM1, PRDM9, PRKAR1A, PSMB10#, PSMB8#, PSMB9#. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing, Capillary electrophoresis and Immunohistochemistry



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93	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Celldx - (Targeted and Immunotherapy Evaluation) (Full Exon Coverage: PTCH1, PTEN, PTPRT, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RASA1, RASA2, RB1, RBM10, RECQL4, RNASEH2A, RNASEH2B, RNASEH2C#, RNF43, RPA1, RPL22#, RPL5#, RUNX1, RUNX1T1#, SDHA, SDHB, SDHC#, SDHD, SETD2, SLX4, SMAD2, SMAD4, SMARCA4, SMARCB1, SOCS1#, SOX9, SPEN, STAG2, STAT1#, STK11, SUFU, TAP1, TAP2, TBX3, TCF7L2, TET2, TGFBR2, TMEM132D#, TNFAIP3, TNFRSF14, TP53, TP63, TPP2, TSC1, TSC2, UGT1A1#, USP9X, VHL, WT1, XRCC2, XRCC3, ZBTB20#, ZFH3, ZMYM3, ZRSR2. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing, Capillary electrophoresis and Immunohistochemistry
94	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Celldx - (Targeted and Immunotherapy Evaluation) (Fusion AKT2, ALK, AR, AXL, BRAF, BRCA1, BRCA2, CDKN2A, EGFR, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PPARG, PRKACA, PRKACB, PTEN, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, TERT. Antibody Details - Immunohistochemistry MLH1, MSH2, MSH6, PMS2, PD-L1 - 28-8, PD-L1 - 22C3)	Next Generation Sequencing, Capillary electrophoresis and Immunohistochemistry



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95	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Celldx - (Targeted and Immunotherapy Evaluation) (Hotspot / CNV: ABCB1**, ABL1, ABL2, ACVR1*, AKT1, AKT2, AKT3, ALK, AR, ARAF, ATP1A1*, AURKA, AURKC, AXL, BCL2, BCL2L12, BCL6, BCR*, BMP5*, BRAF, BTK*, CACNA1D*, CARD11, CBL, CCND1, CCND2, CCND3, CCNE1, CD79B*, CDK4, CDK6, CHD4, CSF1R*, CTNND1*, CTNND2**, CUL1*, CYSLTR2*, DDR1**, DDR2, DGCR8*, DROSHA*, E2F1*, EGFR, EIF1AX, EMSY**, EPAS1*, ERBB2, ERBB3, ERBB4, ESR1, EZH2, FAM135B, FGF19**, FGF23**, FGF3**, FGF4**, FGF7*, FGF9**, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, FLT4, FOXA1, FOXL2*, FOXO1*, FYN**, GATA2, GLI1*. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing, Capillary electrophoresis and Immunohistochemistry
96	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Celldx - (Targeted and Immunotherapy Evaluation) (Hotspot / CNV: GLI3**, GNA11*, GNAQ*, GNAS, H3F3A, H3F3B, HIF1A*, HIST1H2BD*, HIST1H3B*, HRAS*, IDH1*, IDH2, IGF1R**, IKBKB, IL6ST*, IL7R, IRF4*, IRS4*, KDR, KIT, KLF4*, KLF5, KNSTRN*, KRAS, MAGOH, MAP2K1, MAP2K2*, MAPK1, MAX, MCL1**, MDM2**, MDM4, MECOM, MED12*, MEF2B, MET, MIF, MPL, MTOR, MYC, MYCL**, MYCN, MYD88, MYOD1*, NFE2L2, NRAS, NSD2*, NT5C2*, NTRK1, NTRK2*, NTRK3, NUP93*, PAX5*, PCBP1, PDGFRA, PDGFRB, PIK3C2B, PIK3CA, PIK3CB, PIK3CD*, PIK3CG*, PIK3R2, PIM1, PLCG1, PPP2R1A, PPP6C, PRKACA, PTPN11, PTPRD*, PXDNL. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing, Capillary electrophoresis and Immunohistochemistry



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97	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Celldx - (Targeted and Immunotherapy Evaluation) (Hotspot / CNV: RAC1, RAF1, RARA, RET, RGS7*, RHEB, RHOA*, RICTOR, RIT1, ROS1, RPL10*, RPS6KB1**, RPTOR**, SETBP1, SF3B1, SIX1*, SIX2*, SLCO1B3, SMC1A, SMO, SNCAIP*, SOS1*, SOX2*, SPOP, SRC, SRSF2*, STAT3, STAT5B*, STAT6, TAF1*, TERT, TGFBR1*, TOP1, TPMT, TRRAP*, TSHR*, U2AF1, USP8, WAS*, XPO1, YAP1**, YES1**, ZNF217, ZNF429. CDS. Full Exon Coverage: ABRAXAS1, ACVR1B, ACVR2A, ADAMTS12, ADAMTS2, AMER1, APC, ARHGAP35, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATM, ATR, ATRX, AXIN1, AXIN2, B2M, BAP1, BARD1. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing, Capillary electrophoresis and Immunohistochemistry
98	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Colon Cancer Basic Panel - (KRAS, NRAS, BRAF)	Next Generation Sequencing
99	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Colon Cancer Panel 2- (KRAS, NRAS, BRAF mutation analysis + Her2 amplification + MSI by IHC)	Next Generation Sequencing, Immunohistochemistry
100	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Endometrial Cancer Focused Gene Testing (POLE, PTEN and Tp53 whole gene sequencing)	Next Generation Sequencing
101	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	FGFR2 and FGFR3 alterations (Mutations and fusions testing)	Next Generation Sequencing
102	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Fusion Gene Analysis Panel (Fusion Genes: AKT2, ALK, AR, AXL, BRAF, BRCA1, BRCA2, CDKN2A, EGFR, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PPARG, PRKACA, PRKACB, PTEN, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, TERT)	Next Generation Sequencing
103	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Gene Expression Analysis (Gene Expression: 20802 mRNA)	Next Generation Sequencing
104	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	GIST Basic Panel (KIT, PDGFRA, BRAF)	Next Generation Sequencing



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105	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Lung Cancer Panel with Tumor Mutation Burden (Gene List: ABCB1, ABL1, ABL2, ABRAXAS1, ACVR1B, ACVR2A, ADAMTS12, ADAMTS2, AKT1, AKT2, AKT3, ALK, AMER1, APC, AR, ARAF, ARHGAP35, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATM, ATR, ATRX, AURKA, AURKC, AXIN1, AXIN2, AXL, B2M, BAP1, BARD1, BCL2, BCL6, BCR, BCR, BLM, BMPR2, BRAF, BRCA1, BRCA2, BRIP1, BTK, CALR, CARD11, CASP8, CBF, CBL, CCND1, CCND2, CCND3, CCNE1, CD274, CD276, CD79B, CDC73, CDH1, CDH10, CDK12, CDK4, CDK6, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CHEK1, CHEK2)	Next Generation Sequencing
106	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Lung Cancer Panel with Tumor Mutation Burden (Gene List: CIC, CIITA, CREBBP, CSF1R, CSMD3, CTCF, CTLA4, CTNNA1, CTNNA2, CUL1, CUL3, CUL4A, CUL4B, CYLD, CYP2C9, CYP2D6, CYSLTR2, DAXX, DDR1, DDR2, DDX3X, DICER1, DNMT3A, DOCK3, DPYD, DSC1, DSC3, EGFR, ELF3, EMSY, ENO1, EP300, EPCAM, EPHA2, ERAP1, ERAP2, ERBB2, ERBB3, ERBB4, ERCC2, ERCC4, ERCC5, ERG, ERFF1, ESR1, ETV1, ETV4, ETV5, ETV6, EZH2, FAM135B, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS, FAT1, FBXW7, FGF19, FGF23, FGF3, FGF4, FGFR1, FGFR2, FGFR3)	Next Generation Sequencing



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107	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Lung Cancer Panel with Tumor Mutation Burden (Gene List: FGFR4, FGR, FLT3, FLT4, FOXA1, FOXL2, FOXO1, FUBP1, FYN, GATA2, GATA3, GLI1, GLI3, GNA11, GNA13, GNAQ, GNAS, GPS2, H3F3A, H3F3B, HDAC2, HDAC9, HIF1A, HIST1H3B, HLA-A, HLA-B, HNF1A, HRAS, ID3, IDH1, IDH2, IGF1R, IKBKB, IL6ST, IL7R, INPP4B, IRF4, JAK1, JAK2, JAK3, KDM5C, KDM6A, KDR, KEAP1, KIT, KLF5, KLHL13, KMT2A, KMT2B, KMT2C, KMT2D, KNSTRN, KRAS, LARP4B, LATS1, LATS2, MAGOH, MAP2K1, MAP2K2, MAP2K4, MAP2K7, MAP3K1, MAP3K4, MAPK1, MAPK8, MAX, MCL1, MDM2, MDM4, MECOM)	Next Generation Sequencing
108	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Lung Cancer Panel with Tumor Mutation Burden (Gene List: Fusions: AKT2, ALK, AR, AXL, BRAF, BRCA1, BRCA2, CDKN2A, EGFR, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PPARG, PRKACA, PRKACB, PTEN, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, TERT)	Next Generation Sequencing
109	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Lung Cancer Panel with Tumor Mutation Burden (Gene List: MED12, MEF2B, MEN1, MET, MGA, MITF, MLH1, MLH3, MPL, MRE11, MSH2, MSH3, MSH6, MTAP, MTOR, MTUS2, MUTYH, MYB, MYBL1, MYC, MYCL, MYCN, MYD88, NBN, NCOR1, NF1, NF2, NFE2L2, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NRAS, NRG1, NT5C2, NTRK1, NTRK2, NTRK3, NUTM1, PALB2, PARP1, PARP2, PARP3, PARP4, PAX5, PBRM1, PCBP1, PDCD1, PDCD1LG2, PDGFRA, PDGFRB, PDIA3, PGD, PHF6, PIK3C2B, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIM1, PLCG1, PMS1, PMS2, POLD1, POLE, POT1, PPARG, PPM1D)	Next Generation Sequencing



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110	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Lung Cancer Panel with Tumor Mutation Burden (Gene List: PPP2R1A, PPP2R2A, PRDM1, PRDM9, PRKACA, PRKACB, PRKAR1A, PSMB10, PSMB8, PSMB9, PTCH1, PTEN, PTPN11, PTPRD, PTPRT, PXDNL, RAC1, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RAF1, RARA, RASA1, RASA2, RB1, RBM10, RECQL4, RET, RELA, RHEB, RHOA, RICTOR, RIT1, RNASEH2A, RNASEH2B, RNASEH2C, RNF43, ROS1, RPA1, RPL22, RPL5, RPS6KB1, RPTOR, RSPO2, RSPO3, RUNX1, RUNX1T1, SDHA, SDHB, SDHC, SDHD, SETD2, SF3B1, SLCO1B3, SLX4, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SNCAIP, SOCS1, SOX2, SOX9, SPEN, SPOP)	Next Generation Sequencing
111	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Lung Cancer Panel with Tumor Mutation Burden (Gene List: SRC, STAG2, STAT1, STAT3, STAT6, STK11, SUFU, TAF1, TAP1, TAP2, TBX3, TCF7L2, TERT, TET2, TGFBR2, TMEM132D, TNFAIP3, TNFRSF14, TOP1, TP53, TP63, TPMT, TPP2, TRRAP, TSC1, TSC2, TSHR, U2AF1, UGT1A1, USP8, USP9X, VHL, WAS, WT1, XPO1, XRCC2, XRCC3, YAP1, YES1, ZBTB20, ZFH3, ZMYM3, ZNF217, ZNF429, ZRSR2)	Next Generation Sequencing
112	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	NTRK 1/2/3 Fusions on tissue	Next Generation Sequencing
113	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	PIK3CA analysis on tissue	Next Generation Sequencing



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114	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Proxseq - Tissue Profiling for DNA, RNA and Proteins {Gene List: ABCB1, ABL1, ABL2, ABRAXAS1, ACVR1*, ACVR1B, ACVR2A, ADAMTS12, ADAMTS2, AKT1, AKT2, AKT3, ALK, AMER1, APC, AR, ARAF, ARHGAP35, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATM, ATP1A1*, ATR, ATRX, AURKA, AURKC, AXIN1, AXIN2, AXL, B2M, BAP1, BARD1, BCL2, BCL2L12, BCL6, BCOR, BCR*, BLM, BMP5*, BMPR2, BRAF, BRCA1, BRCA2, BRIP1, BTK*, CACNA1D*, CALR*, CARD11, CASP8, CBF, CBL, CCND1, CCND2, CCND3, CCNE1, CD274, CD276, CD79B*, CDC73, CDH1, CDH10, CDK12, CDK4, CDK6, CDKN1A, CDKN1B (* NO CNA.)}	Next Generation Sequencing , Immunohistochemistry
115	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Proxseq - Tissue Profiling for DNA, RNA and Proteins {Gene List: Fusions: AKT2, ALK, AR, AXL, BRAF, BRCA1, BRCA2, CDKN2A, EGFR, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PPARG, PRKACA, PRKACB, PTEN, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, TERT. Antibody Details - Immunohistochemistry MLH1, MSH2, MSH6, PMS2, PD-L1 - 28-8, PD-L1 - 22C3. ER/PR/HER2/AR if relevant. Gene Expression: 20802 mRNA.}	Next Generation Sequencing , Immunohistochemistry



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LABORATORY-DATAR CANCER GENETICS PRIVATE LIMITED, F-8, D-ROAD, AMBAD, NASHIK, MAHARASHTRA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
116	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Proxseq - Tissue Profiling for DNA, RNA and Proteins {Gene List: SMAD2, SMAD4, SMARCA4, SMARCB1, SMC1A, SMO, SNCAIP*, SOCS1*, SOS1*, SOX2*, SOX9, SPEN, SPOP, SRC, SRSF2*, STAG2, STAT1*, STAT3, STAT5B*, STAT6, STK11, SUFU, TAF1*, TAP1, TAP2, TBX3, TCF7L2, TERT, TET2, TGFBR1*, TGFBR2, TMEM132D*, TNFAIP3, TNFRSF14, TOP1, TP53, TP63, TPMT, TPP2, TRRAP*, TSC1, TSC2, TSHR*, U2AF1, UGT1A1*, USP8, USP9X, VHL, WAS*, WT1, XPO1, XRCC2, XRCC3, YAP1, YES1, ZBTB20*, ZFHX3, ZMYM3, ZNF217, ZNF429, ZRSR2. (* NO CNA)}	Next Generation Sequencing , Immunohistochemistry
117	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Proxseq - Tissue Profiling for DNA, RNA and Proteins {Gene List: CDKN2A, CDKN2B, CDKN2C, CHD4, CHEK1, CHEK2, CIC, CIITA*, CREBBP, CSF1R*, CSMD3, CTCF, CTLA4, CTNND1*, CTNND2, CUL1*, CUL3, CUL4A, CUL4B, CYLD, CYP2C9, CYP2D6*, CYSLTR2*, DAXX, DDR1, DDR2, DDX3X, DGCR8*, DICER1, DNMT3A, DOCK3, DPYD, DROSHA*, DSC1, DSC3, E2F1*, EGFR, EIF1AX, ELF3, EMSY, ENO1, EP300, EPAS1*, EPCAM, EPHA2, ERAP1, ERAP2, ERBB2, ERBB3, ERBB4, ERCC2, ERCC4, ERCC5*, ERFF1, ESR1, ETV6, EZH2, FAM135B, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS*, FAT1, FBXW7. (* NO CNA)}	Next Generation Sequencing , Immunohistochemistry



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118	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Proxseq - Tissue Profiling for DNA, RNA and Proteins {Gene List: FGF19, FGF23, FGF3, FGF4, FGF7*, FGF9, FGF19, FGF23, FGF3, FGF4, FGF7*, FGF9, FGF19, FGF23, FGF3, FGF4, FLT3, FLT4, FOXA1, FOXL2*, FOXO1*, FUBP1, FYN, GATA2, GATA3, GLI1*, GLI3, GNA11*, GNA13, GNAQ*, GNAS, GPS2, H3F3A, H3F3B, HDAC2, HDAC9, HIF1A*, HIST1H2BD*, HIST1H3B*, HLA-A, HLA-B, HNF1A, HRAS*, ID3*, IDH1*, IDH2, IGF1R, IKKB, IL6ST*, IL7R, INPP4B, IRF4*, IRS4*, JAK1, JAK2, JAK3, KDM5C, KDM6A, KDR, KEAP1, KIT, KLF4*, KLF5, KLHL13*, KMT2A, KMT2B, KMT2C, KMT2D, KNSTRN*, KRAS, LARP4B, LATS1, LATS2, MAGOH, MAP2K1, MAP2K2*. (* NO CNA)}	Next Generation Sequencing , Immunohistochemistry
119	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Proxseq - Tissue Profiling for DNA, RNA and Proteins {Gene List: MAP2K4, MAP2K7, MAP3K1, MAP3K4, MAPK1, MAPK8, MAX, MCL1, MDM2, MDM4, MECOM, MED12*, MEF2B, MEN1, MET, MGA, MITF, MLH1, MLH3, MPL, MRE11, MSH2, MSH3, MSH6, MTAP, MTOR, MTUS2*, MUTYH, MYC, MYCL, MYCN, MYD88, MYOD1*, NBN, NCOR1, NF1, NF2, NFE2L2, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NRAS, NSD2*, NT5C2*, NTRK1, NTRK2*, NTRK3, NUP93*, PALB2, PARP1, PARP2, PARP3, PARP4, PAX5*, PBRM1, PCBP1, PDCD1, PDCD1LG2, PDGFRA, PDGFRB, PDIA3, PGD, PHF6, PIK3C2B, PIK3CA, PIK3CB, PIK3CD*, PIK3CG*, PIK3R1. (* NO CNA)}	Next Generation Sequencing , Immunohistochemistry



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120	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Proxseq - Tissue Profiling for DNA, RNA and Proteins {Gene List: PIK3R2, PIM1, PLCG1, PMS1, PMS2, POLD1, POLE, POT1, PPM1D, PPP2R1A, PPP2R2A, PPP6C, PRDM1, PRDM9, PRKACA, PRKAR1A, PSMB10*, PSMB8*, PSMB9*, PTCH1, PTEN, PTPN11, PTPRD*, PTPRT, PXDNL, RAC1, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RAF1, RARA, RASA1, RASA2, RB1, RBM10, RECQL4, RET, RGS7*, RHEB, RHOA*, RICTOR, RIT1, RNASEH2A, RNASEH2B, RNASEH2C*, RNF43, ROS1, RPA1, RPL10*, RPL22*, RPL5*, RPS6KB1, RPTOR, RUNX1, RUNX1T1*, SDHA, SDHB, SDHC*, SDHD, SETBP1, SETD2, SF3B1, SIX1*, SIX2*, SLC01B3, SLX4. (* NO CNA)}	Next Generation Sequencing , Immunohistochemistry
121	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Somatic HRR Analysis - 28 genes (ATM, BARD1, BRCA1, BRCA2, BRIP1, CDK12, CHEK2, FANCD2, FANCL, KRAS, MRE11, NBN, PALB2, PIK3CA, POLD1, POLE, PPP2R2A, PTEN, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, TP53, XRCC2, CHEK1)	Next Generation Sequencing
122	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Tumor Gene Mutation (Genes: ABL1, AKT1, ALK, APC, ATM, BRAF, CDH1, CDKN2A, CSF1R, CTNNB1, EGFR, ERBB2, ERBB4, EZH2, 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, VHL)	Next Generation Sequencing



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123	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight - Targeted Therapy Evaluation (SNV, CNV Genes : AKT1*, AKT2*, AKT3*, ALK*, AR*, ARAF, ARID1A, ATM, ATR, ATRX, AXL*, BAP1, BRAF*, BRCA1, BRCA2, BTK, CBL, CCND1*, CCND2*, CCND3*, CCNE1*, CDK12, CDK2*, CDK4*, CDK6*, CDKN1B, CDKN2A*, CDKN2B*, CHEK1, CHEK2, CREBBP, CSF1R, CTNNA1, DDR2, EGFR*, ERBB2*, ERBB3, ERBB4, ERCC2, ESR1*, EZH2, FANCA, FANCD2, FANCI, FBXW7, FGF19*, FGF3*, FGFR1*, FGFR2*, FGFR3*, FGFR4*, FLT3*, FOXL2, GATA2, GNA11, GNAQ, GNAS, H3F3A, HIST1H3B, HNF1A, HRAS, IDH1, IDH2, IGF1R*, JAK1, JAK2, JAK3, KDR, KIT*, KNSTRN. *Only CNV)	Next Generation Sequencing
124	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight - Targeted Therapy Evaluation (SNV, CNV Genes : KRAS*, MAGOH, MAP2K1, MAP2K2, MAP2K4, MAPK1, MAX, MDM2*, MDM4*, MED12, MET*, MLH1, MRE11A, MSH2, MSH6, MTOR, MYC*, MYCL*, MYCN*, MYD88, NBN, NF1, NF2, NFE2L2, NOTCH1, NOTCH2, NOTCH3, NRAS, NTRK1*, NTRK2*, NTRK3*, PALB2, PDGFRA*, PDGFRB*, PIK3CA*, PIK3CB*, PIK3R1, PMS2, POLE, PPARG*, PPP2R1A, PTCH1, PTEN, PTPN11, RAC1, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAF1, RB1, RET, RHEB, RHOA, RICTOR*, RNF43, ROS1, SETD2, SF3B1. *Only CNV)	Next Generation Sequencing



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125	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight - Targeted Therapy Evaluation (SNV, CNV Genes : SLX4, SMAD4, SMARCA4, SMARCB1, SMO, SPOP, SRC, STAT3, STK11, TERT*, TOP1, TP53, TSC1*, TSC1TSC2, TSC2*, U2AF1, XPO1 *Only CNV. Fusions: AKT2, ALK, AR, AXL, BRAF, BRCA1, BRCA2, CDKN2A, EGFR, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PPARG, PRKACA, PRKACB, PTEN, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, TERT.)	Next Generation Sequencing
126	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight Plus - Targeted Therapy Analysis with TMB (Gene List: ABCB1, ABL1, ABL2, ABRAXAS1, ACVR1B, ACVR2A, ADAMTS12, ADAMTS2, AKT1, AKT2, AKT3, ALK, AMER1, APC, AR, ARAF, ARHGAP35, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATM, ATR, ATRX, AURKA, AURKC, AXIN1, AXIN2, AXL, B2M, BAP1, BARD1, BCL2, BCL6, BCOR, BCR, BLM, BMPR2, BRAF, BRCA1, BRCA2, BRIP1, BTK, CALR, CARD11, CASP8, CBF3, CBL, CCND1, CCND2, CCND3, CCNE1, CD274, CD276, CD79B, CDC73, CDH1, CDH10, CDK12, CDK4, CDK6, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CHEK1, CHEK2)	Next Generation Sequencing



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127	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight Plus - Targeted Therapy Analysis with TMB (Gene List: CIC, CIITA, CREBBP, CSF1R, CSMD3, CTCF, CTLA4, CTNNB1, CTNND2, CUL1, CUL3, CUL4A, CUL4B, CYLD, CYP2C9, CYP2D6, CYSLTR2, DAXX, DDR1, DDR2, DDX3X, DICER1, DNMT3A, DOCK3, DPYD, DSC1, DSC3, EGFR, ELF3, EMSY, ENO1, EP300, EPCAM, EPHA2, ERAP1, ERAP2, ERBB2, ERBB3, ERBB4, ERCC2, ERCC4, ERCC5, ERG, ERRF1, ESR1, ETV1, ETV4, ETV5, ETV6, EZH2, FAM135B, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS, FAT1, FBXW7, FGF19, FGF23, FGF3, FGF4, FGFR1, FGFR2, FGFR3)	Next Generation Sequencing
128	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight Plus - Targeted Therapy Analysis with TMB (Gene List: FGFR4, FGR, FLT3, FLT4, FOXA1, FOXL2, FOXO1, FUBP1, FYN, GATA2, GATA3, GLI1, GLI3, GNA11, GNA13, GNAQ, GNAS, GPS2, H3F3A, H3F3B, HDAC2, HDAC9, HIF1A, HIST1H3B, HLA-A, HLA-B, HNF1A, HRAS, ID3, IDH1, IDH2, IGF1R, IKBKB, IL6ST, IL7R, INPP4B, IRF4, JAK1, JAK2, JAK3, KDM5C, KDM6A, KDR, KEAP1, KIT, KLF5, KLHL13, KMT2A, KMT2B, KMT2C, KMT2D, KNSTRN, KRAS, LARP4B, LATS1, LATS2, MAGOH, MAP2K1, MAP2K2, MAP2K4, MAP2K7, MAP3K1, MAP3K4, MAPK1, MAPK8, MAX, MCL1, MDM2, MDM4, MECOM)	Next Generation Sequencing
129	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight Plus - Targeted Therapy Analysis with TMB (Gene List: Fusion: AKT2, ALK, AR, AXL, BRAF, BRCA1, BRCA2, CDKN2A, EGFR, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PPARG, PRKACA, PRKACB, PTEN, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, TERT)	Next Generation Sequencing



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130	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight Plus - Targeted Therapy Analysis with TMB (Gene List: MED12, MEF2B, MEN1, MET, MGA, MITF, MLH1, MLH3, MPL, MRE11, MSH2, MSH3, MSH6, MTAP, MTOR, MTUS2, MUTYH, MYB, MYBL1, MYC, MYCL, MYCN, MYD88, NBN, NCOR1, NF1, NF2, NFE2L2, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NRAS, NRG1, NT5C2, NTRK1, NTRK2, NTRK3, NUTM1, PALB2, PARP1, PARP2, PARP3, PARP4, PAX5, PBRM1, PCBP1, PDCD1, PDCD1LG2, PDGFRA, PDGFRB, PDIA3, PGD, PHF6, PIK3C2B, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIM1, PLCG1, PMS1, PMS2, POLD1, POLE, POT1, PPARG, PPM1D)	Next Generation Sequencing
131	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight Plus - Targeted Therapy Analysis with TMB (Gene List: PPP2R1A, PPP2R2A, PRDM1, PRDM9, PRKACA, PRKACB, PRKAR1A, PSMB10, PSMB8, PSMB9, PTCH1, PTEN, PTPN11, PTPRD, PTPRT, PXDN, RAC1, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RAF1, RARA, RASA1, RASA2, RB1, RBM10, RECQL4, RET, RELA, RHEB, RHOA, RICTOR, RIT1, RNASEH2A, RNASEH2B, RNASEH2C, RNF43, ROS1, RPA1, RPL22, RPL5, RPS6KB1, RPTOR, RSPO2, RSPO3, RUNX1, RUNX1T1, SDHA, SDHB, SDHC, SDHD, SETD2, SF3B1, SLCO1B3, SLX4, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SNCAIP, SOCS1, SOX2, SOX9, SPEN, SPOP)	Next Generation Sequencing
132	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorInsight Plus - Targeted Therapy Analysis with TMB (Gene List: SRC, STAG2, STAT1, STAT3, STAT6, STK11, SUFU, TAF1, TAP1, TAP2, TBX3, TCF7L2, TERT, TET2, TGFBR2, TMEM132D, TNFAIP3, TNFRSF14, TOP1, TP53, TP63, TPMT, TPP2, TRRAP, TSC1, TSC2, TSHR, U2AF1, UGT1A1, USP8, USP9X, VHL, WAS, WT1, XPO1, XRCC2, XRCC3, YAP1, YES1, ZBTB20, ZFH3, ZMYM3, ZNF217, ZNF429, ZRSR2.)	Next Generation Sequencing



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133	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorProbe - Tumor Mutation Burden analysis (Gene List: ABCB1, ABL1, ABL2, ABRAXAS1, ACVR1B, ACVR2A, ADAMTS12, ADAMTS2, AKT1, AKT2, AKT3, ALK, AMER1, APC, AR, ARAF, ARHGAP35, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATM, ATR, ATRX, AURKA, AURKC, AXIN1, AXIN2, AXL, B2M, BAP1, BARD1, BCL2, BCL6, BCOR, BCR, BLM, BMPR2, BRAF, BRCA1, BRCA2, BRIP1, BTK, CALR, CARD11, CASP8, CBF3, CBL, CCND1, CCND2, CCND3, CCNE1, CD274, CD276, CD79B, CDC73, CDH1, CDH10, CDK12, CDK4, CDK6, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CHEK1, CHEK2)	Next Generation Sequencing
134	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorProbe - Tumor Mutation Burden analysis (Gene List: CIC, CIITA, CREBBP, CSF1R, CSMD3, CTCF, CTLA4, CTNNA1, CTNNA2, CUL1, CUL3, CUL4A, CUL4B, CYLD, CYP2C9, CYP2D6, CYSLTR2, DAXX, DDR1, DDR2, DDX3X, DICER1, DNMT3A, DOCK3, DPYD, DSC1, DSC3, EGFR, ELF3, EMSY, ENO1, EP300, EPCAM, EPHA2, ERAP1, ERAP2, ERBB2, ERBB3, ERBB4, ERCC2, ERCC4, ERCC5, ERG, ERFF1, ESR1, ETV1, ETV4, ETV5, ETV6, EZH2, FAM135B, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS, FAT1, FBXW7, FGF19, FGF23, FGF3, FGF4, FGFR1, FGFR2, FGFR3)	Next Generation Sequencing



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135	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorProbe - Tumor Mutation Burden analysis (Gene List: FGFR4, FGR, FLT3, FLT4, FOXA1, FOXL2, FOXO1, FUBP1, FYN, GATA2, GATA3, GLI1, GLI3, GNA11, GNA13, GNAQ, GNAS, GPS2, H3F3A, H3F3B, HDAC2, HDAC9, HIF1A, HIST1H3B, HLA-A, HLA-B, HNF1A, HRAS, ID3, IDH1, IDH2, IGF1R, IKBKB, IL6ST, IL7R, INPP4B, IRF4, JAK1, JAK2, JAK3, KDM5C, KDM6A, KDR, KEAP1, KIT, KLF5, KLHL13, KMT2A, KMT2B, KMT2C, KMT2D, KNSTRN, KRAS, LARP4B, LATS1, LATS2, MAGOH, MAP2K1, MAP2K2, MAP2K4, MAP2K7, MAP3K1, MAP3K4, MAPK1, MAPK8, MAX, MCL1, MDM2, MDM4, MECOM)	Next Generation Sequencing
136	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorProbe - Tumor Mutation Burden analysis (Gene List: MED12, MEF2B, MEN1, MET, MGA, MITF, MLH1, MLH3, MPL, MRE11, MSH2, MSH3, MSH6, MTAP, MTOR, MTUS2, MUTYH, MYB, MYBL1, MYC, MYCL, MYCN, MYD88, NBN, NCOR1, NF1, NF2, NFE2L2, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NRAS, NRG1, NT5C2, NTRK1, NTRK2, NTRK3, NUTM1, PALB2, PARP1, PARP2, PARP3, PARP4, PAX5, PBRM1, PCBP1, PDCD1, PDCD1LG2, PDGFRA, PDGFRB, PDIA3, PGD, PHF6, PIK3C2B, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIM1, PLCG1, PMS1, PMS2, POLD1, POLE, POT1, PPARG, PPM1D)	Next Generation Sequencing



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137	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorProbe - Tumor Mutation Burden analysis (Gene List: PPP2R1A, PPP2R2A, PRDM1, PRDM9, PRKACA, PRKACB, PRKAR1A, PSMB10, PSMB8, PSMB9, PTCH1, PTEN, PTPN11, PTPRD, PTPRT, PDXNL, RAC1, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RAF1, RARA, RASA1, RASA2, RB1, RBM10, RECQL4, RET, RELA, RHEB, RHOA, RICTOR, RIT1, RNASEH2A, RNASEH2B, RNASEH2C, RNF43, ROS1, RPA1, RPL22, RPL5, RPS6KB1, RPTOR, RSPO2, RSPO3, RUNX1, RUNX1T1, SDHA, SDHB, SDHC, SDHD, SETD2, SF3B1, SLCO1B3, SLX4, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SNCAIP, SOCS1, SOX2, SOX9, SPEN, SPOP)	Next Generation Sequencing
138	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorProbe - Tumor Mutation Burden analysis (Gene List: SRC, STAG2, STAT1, STAT3, STAT6, STK11, SUFU, TAF1, TAP1, TAP2, TBX3, TCF7L2, TERT, TET2, TGFBR2, TMEM132D, TNFAIP3, TNFRSF14, TOP1, TP53, TP63, TPMT, TPP2, TRRAP, TSC1, TSC2, TSHR, U2AF1, UGT1A1, USP8, USP9X, VHL, WAS, WT1, XPO1, XRCC2, XRCC3, YAP1, YES1, ZBTB20, ZFH3, ZMYM3, ZNF217, ZNF429, ZRSR2.)	Next Generation Sequencing
139	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic(SNV & CNV Genes: , PIK3CD, PIK3CG, PIK3R1,PIK3R2, PIM1, PKHD1, PLAG1)	Next Generation Sequencing:
140	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic(SNV & CNV Genes: MAFB, MAGEA1, MAG1, MALT1, MAML2,MAP2K1, MAP2K2, MAP2K4, MAP3K7, MAPK1,MAPK8, MARK1, MARK4)	Next Generation Sequencing
141	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: PIK3R1,PIK3R2, PIM1, PKHD1, PLAG1, PLCG1,PLEKHG5, PML, PMS1, PMS2, POT1, POU5F1,PPARG, PPP2R1A, PRDM1, PRKAR1A))	Next Generation Sequencing



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142	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: MBD1, MCL1, MDM2, MDM4, MEN1, MET, MITF, MLH1, MLL, MLL2)	Next Generation Sequencing
143	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: TGFBR2, TGM7, THBS1, TIMP3, TLR4, TLX1, TNFAIP3, TNFRSF14, TNK2, TOP1)	Next Generation Sequencing
144	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: Antibody Details - Immunocytochemistry EPCAM ,CK , CD45 , mTOR, VEGFR1, VEGFR2, VEGFA, EGFR. Chemosensitive drugs)	Next Generation Sequencing
145	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic (CDKN2A, CDKN2B, CDKN2C, CEBPA, CHEK1, CHEK2)	Next Generation Sequencing
146	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic (SNV & CNV Genes: PLCG1, PLEKHG5, PML, PMS1, PMS2, POT1, POU5F1, PPARG, PPP2R1A, PRDM1, PRKAR1A, PRKDC, PSIP1, PTCH1, PTEN, PTGS2, PTPN11, PTPRD, PTPRT, RAD50, RAF1, RALGDS, RARA, RB1, RECQL4, REL, RET, RHOH, RNASEL, RNF2, RNF213, ROS1, RPS6KA2, RRM1, RUNX1, RUNX1T1, SAMD9, SBDS, SDHA, SDHB, SDHC, SDHD, SEPT9, SETD2, SF3B1, SGK1, SH2D1A, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SMUG1, SOCS1, SOX11, SOX2, SRC, SSX1, STK11, STK36, SUFU, SYK, SYNE1, TAF1, TAF1L,	Next Generation Sequencing
147	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic (SNV & CNV Genes: TAL1, TBX22, TCF12, TCF3, TCF7L1, TCF7L2, TCL1A, TET1, TET2, TFE3, TGFBR2, TGM7, THBS1, TIMP3, TLR4, TLX1)	Next Generation Sequencing
148	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: FLI1, FLT1, FLT3, FLT4, FN1, FOXL2, FOXO1, FOXO3, FOXP1, FOXP4, FZR1, G6PD, GATA1, GATA2, GATA3)	Next Generation Sequencing



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149	MOLECULAR TESTING	Blood / FFPE (Formalinfixed Paraffinembedded Tissue)	Encyclopedic Tumor Analysis - Basic ((Full ExonCoverage PIK3R1, PMS1, PMS2,POLD1, POLE, POT1. *Only Hotspot; ** Only CNV;# No CNV)	Next Generation Sequencing
150	MOLECULAR TESTING	Blood / FFPE (Formalinfixed Paraffinembedded Tissue)	Encyclopedic Tumor Analysis - Basic (Full ExonCoverage: TP53, TP63,TPP2, TSC1, TSC2, UGT1A1#, USP9X, VHL,WT1, XRCC2, XRCC3, ZBTB20#, ZFHx3,ZMYM3, ZRSR2. *Only Hotspot; ** Only CNV; # NoCNV)	Next Generation Sequencing
151	MOLECULAR TESTING	Blood / FFPE (Formalinfixed Paraffinembedded Tissue)	Encyclopedic Tumor Analysis - Basic (Hotspot /CNV: YES1**, ZNF217, ZNF429. CDS (Full Exon Coverage) ABRAXAS1, ACVR1B, ACVR2A, ADAMTS12, ADAMTS2, AMER1, APC, ARHGAP35, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
152	MOLECULAR TESTING	Blood / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Comprehensive (Full Exon Coverage: CUL4B, CYLD, CYP2C9, CYP2D6#, DAXX, DDX3X, DICER1, DNMT3A, DOCK3, DPYD, DSC1, DSC3, ELF3, ENO1, EP300, EPCAM, EPHA2, ERAP1, ERAP2, ERCC2, ERCC4, ERCC5#, ERFF1, ETV6, FANCA, FANCC, FANCD2, FANCE. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
153	MOLECULAR TESTING	Blood / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Basic (Hotspot /CNV: CTNNB1*, CTNND2**, CUL1*, CYSLTR2*, DDR1**, DDR2, DGCR8*, DROSHA*, E2F1*, EGFR, EIF1AX, EMSY**, EPAS1*, ERBB2, ERBB3, ERBB4, ESR1, EZH2, FAM135B, FGF19**, FGF23**, FGF3**, FGF4**, FGF7*, FGF9**, FGFR1, FGFR2, FGFR3, FGFR4, FLT3. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing



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154	MOLECULAR TESTING	Blood / Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Basic(Hotspot / CNV: MDM4, MECOM, MED12*, MEF2B, MET, MIF, MPL, MTOR, MYC, MYCL**, MYCN, MYD88, MYOD1*, NFE2L2, NRAS, NSD2*, NT5C2*, NTRK1, NTRK2*, NTRK3, NUP93*, PAX5*, PCBP1, PDGFRA, PDGFRB, PIK3C2B, PIK3CA, PIK3CB, PIK3CD*, PIK3CG*, PIK3R2. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
155	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Comprehensive (Hotspot / CNV: SMO, SNCAIP*, SOS1*, SOX2*, SPOP, SRC, SRSF2*, STAT3, STAT5B*, STAT6, TAF1*, TERT, TGFBR1*, TOP1, TPMT, TRRAP*, TSHR*, U2AF1, USP8, WAS*, XPO1, YAP1**, YES1**, ZNF217, ZNF429. CDS Full Exon Coverage: ABRAXAS1, ACVR1B, ACVR2A, ADAMTS12, ADAMTS2, AMER1, APC, ARHGAP35, ARID1A, ARID1B. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
156	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Comprehensive (Hotspot / CNV: MAPK1, MAX, MCL1**, MDM2**, MDM4, MECOM, MED12*, MEF2B, MET, MIF, MPL, MTOR, MYC, MYCL**, MYCN, MYD88, MYOD1*, NFE2L2, NRAS, NSD2*, NT5C2*, NTRK1, NTRK2*, NTRK3, NUP93*, PAX5*, PCBP1, PDGFRA, PDGFRB, PIK3C2B, PIK3CA. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
157	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis-Comprehensive (Full Exon Coverage- LATS2, MAP2K4, MAP2K7, MAP3K1, MAP3K4, MAPK8, MEN1, MGA, MLH1, MLH3, MRE11, MSH2, MSH3, MSH6, MTAP, MTUS2#, MUTYH, NBN, NCOR1, NF1, NF2, NOTCH1, NOTCH2, NOTCH3, NOTCH4, PALB2, PARP1, PARP2, PARP3, PARP4, PBRM1, PDCD1, PDCD1LG2, PDIA3, PGD, PHF6, PIK3R1, PMS1. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing



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158	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis- Comprehensive (Full Exon Coverage: SMAD2, SMAD4, SMARCA4, SMARCB1, SOCS1#, SOX9, SPEN, STAG2, STAT1#, STK11, SUFU, TAP1, TAP2, TBX3, TCF7L2, TET2, TGFBR2, TMEM132D#, TNFAIP3, TNFRSF14, TP53, TP63, TPP2, TSC1, TSC2, UGT1A1#, USP9X, VHL, WT1, XRCC2, XRCC3, ZBTB20#, ZFH3, ZMYM3, ZRSR2. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing