



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

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Validity

02/09/2025 to 01/09/2029

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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
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 (Manual method)
2	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 (Manual method)
3	CYTOPATHOLOGY	Blood	ER, PR, Her2 by Immunocytochemistry	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting (Manual Method)
4	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 (Manual)
5	CYTOPATHOLOGY	Blood	Progesterone receptor (PR) by Immunocytochemistry	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting (Manual Method)
6	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 (manual Method)
7	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 (Manual Method)
8	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 (Manual Method)



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9	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 (Manual Method)
10	CYTOPATHOLOGY	Blood	Trublood - Head and Neck Cancer (EpCAM, PanCK, CD45, CKHMMW, p63, CK5/6, p16, CK7)	Immunocytochemistry, RBC Lysis for PBMC Isolation, Antibodies staining, Scanning on High content screening platform, Analysis and reporting (Manual Method)
11	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 (Manual Method)
12	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 (manual method)
13	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 (Manual method)
14	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 (Manual method)
15	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 (manual method)
16	HISTOPATHOLOGY	Small, Medium & Large Tissue	H&E Staining (Conventional)	Grossing, Processing, Microtomy, Microscopy with interpretation (Manual Method)
17	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin fixed Paraffin embedded Tissue) / Fresh Tissue	Androgen receptor - AR	Immunohistochemistry (Automated)
18	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin fixed Paraffin embedded Tissue) / Fresh Tissue	Estrogen receptor - ER	Immunohistochemistry (Automated)



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19	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin fixed Paraffin embedded Tissue) / Fresh Tissue	Human epidermal growth factor receptor-2 - Her 2	Immunohistochemistry (Automated)
20	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin fixed Paraffin embedded Tissue) / Fresh Tissue	Microsatellite Instability Analysis - MLH1, MSH2, MSH6, PMS2	Immunohistochemistry (Automated)
21	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Progesterone receptor - PR	Immunohistochemistry (Automated)
22	HISTOPATHOLOGY	Unstained slides / FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Programmed death-ligand 1 (PDL-1)	Immunohistochemistry (Automated)
23	MOLECULAR TESTING	Blood	Comprehensive Pharmacogenetics (ABCB1, ABCG2, BDKRB1, COMT, COQ2, CYP2B6, CYP2D6,F2, FCGR2A, G6PD, LTC4S, MTHFR, NUDT15, OPRM1,PRKCA, PTGS1, SLC01B1, 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, SLC01B1, TNF, TPMT,UGT1A1, UGT2B15, FDPS)	Next Generation Sequencing
24	MOLECULAR TESTING	Blood	BRCA 1+2 gene testing	Next Generation Sequencing
25	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
26	MOLECULAR TESTING	Blood	DPYD Gene Mutation Detection	Next Generation Sequencing
27	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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28	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
29	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic (SNV & CNV Genes: CDKN2A, CDKN2B, CDKN2C, CEBPA)	Next Generation Sequencing
30	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic(SNV & CNV Genes: , PIK3CD, PIK3CG, PIK3R1,PIK3R2, PIM1, PKHD1, PLAG1)	Next Generation Sequencing:
31	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, 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,	Next Generation Sequencing
32	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Basic(SNV & CNV Genes: MAFB, MAGEA1, MAGI1, MALT1, MAML2,MAP2K1, MAP2K2, MAP2K4, MAP3K7, MAPK1,MAPK8, MARK1, MARK4)	Next Generation Sequencing



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33	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
34	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
35	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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36	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
37	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
38	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: MBD1, MCL1, MDM2, MDM4, MEN1, MET, MITF, MLH1, MLL, MLL2)	Next Generation Sequencing



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39	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,
40	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
41	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis - Comprehensive (SNV & CNV Genes: TGFBR2, TGM7, THBS1, TIMP3, TLR4, TLX1, TNFAIP3, TNFRSF14, TNK2, TOP1)	Next Generation Sequencing
42	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



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43	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
44	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis-Basic (CDKN2A,CDKN2B, CDKN2C, CEBPA, CHEK1, CHEK2)	Next Generation Sequencing
45	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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46	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
47	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
48	MOLECULAR TESTING	Blood	Encyclopedic Liquid Biopsy analysis-Comprehensive(SNV & CNV Genes: CIC, CKS1B, CMPK1, COL1A1, CRBN, CREB1, CREBBP, CRKL, CRTCL1, 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
49	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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50	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
51	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
52	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



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53	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
54	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



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55	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
56	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



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57	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, SSX1, STK11, STK36, SUFU, SYK, SYNE1, TAF1, TAF1L, TAL1, TBX22, TCF12, TCF3, TCF7L1, TCF7L2, TCL1A, TET1)	Next Generation Sequencing
58	MOLECULAR TESTING	Blood	Liquid biopsy with Tumor Mutation Burden (Gene List: TET2, TFE3, TGFB2, TGM7, THBS1, TIMP3, TLR4, TLX1, 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. Fusions: ALK, BRAF, ERG, ETV1, FGFR1, FGFR2, FGFR3, MET, NTRK1, NTRK3, RET, ROS1)	Next Generation Sequencing
59	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
60	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#, ZFH3,ZMYM3, ZRSR2. *Only Hotspot; ** Only CNV; # NoCNV)	Next Generation Sequencing
61	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



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62	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#, ERFFI1, ETV6, FANCA, FANCC, FANCD2, FANCE. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
63	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
64	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, REL, RET, ROS1, RSP02, RSP03, TERT. Antibody Details - Immunocytochemistry EPCAM ,CK , CD45 , mTOR , VEGFR1, VEGFR2, VEGFA, EGFR. Chemosensitive drugs)	Next Generation Sequencing



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65	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, TGFB1*, TOP1, TPMT, TRRAP*, TSHR*, U2AF1, USP8, WAS*, XPO1, YAP1** *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
66	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
67	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, BMPR2, BRCA1, BRCA2, BRIP1, CALR#, CASP8, CBF, 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
68	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



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69	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
70	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
71	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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72	MOLECULAR TESTING	Blood / Fresh Tissue	Chemosensitivity Test - (Oxaliplatin, Paclitaxel, Pantoprazole, Pemetrexed, Propranolol, Quercetin, Resveratrol, Streptozocin, Temozolomide, Thiotepa, 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
73	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
74	MOLECULAR TESTING	Blood / Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Encyclopedic Tumor Analysis - Basic(Hotspot / CNV: MDM4, MECOM, MED12*, MEF2B, MET, MITF, 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
75	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, TGFB1*, 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



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76	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
77	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*, IKBK, IL6ST*, IL7R, IRF4*, IRS4*, KDR, KIT, KLF4*, KLF5, KNSTRN*, KRAS, MAGOH, MAP2K1, MAP2K2*, *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
78	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, MITF, MPL, MTOR, MYC, MYCL**, MYCN, MYD88, MYO1*, NFE2L2, NRAS, NSD2*, NT5C2*, NTRK1, NTRK2*, NTRK3, NUP93*, PAX5*, PCBP1, PDGFRA, PDGFRB, PIK3C2B, PIK3CA. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
79	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,



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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
80	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
81	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
82	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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83	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
84	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#, ZFHX3, ZMYM3, ZRSR2. *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing
85	MOLECULAR TESTING	Blood and Fresh Tissue / FFPE (Formalin-fixed Paraffin-embedded Tissue)	Microsatellite Instability Analysis - STR	Capillary electrophoresis
86	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



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87	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
88	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, HNF1A, HOXB13, HRAS, IKZF1, KIT, KRAS, MEN1, MET, MTF, MLH1, MLH3, MRE11A, MSH2, MSH6, MUTYH, MYH11, NBN, NF1, NF2, NRAS, NSD1, NTHL1, PALB2, PAX5, PDGFRA, PHOX2B, PIK3CA, PMS1, PMS2, POLD1, POLE, POT1, PRKAR1A, PTCH1, PTEN, PTPN11, RAD50, RAD51D, RB1)	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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89	MOLECULAR TESTING	Blood	Comprehensive Hereditary Cancer Panel. (Gene List: 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, AIP, ANKRD26, BARD1, CASR, CDKN1B, CTC1, CTNNA1, CTR9, DDX41, DIS3L2, ERBB2, ERCC6L2, ETV6, FAM175A, FAN1, FANCB, FANCE, FANCI, FANCL, FANCM, GEN1, GPC3, HNF1B, IKBKAP, JAK3, KIF1B, LIG4, LZTR1, MAX, MBD4, MC1R, MSH3, MSR1, OBFC1, PARN, POLH, PRF1, PRSS1, PTCH2, RAD51, RAD51B, RAD51C, RECQL, RHBDF2, RNF43, RPA1, RPS20, RTEL1, SAMD9L, SDHAF2, SETBP1, SLX4, SMARCE1, SPINK1, SRP72, TERT, TINF2, TMEM127, TRIM28, TYR, XRCC1, XRCC3, 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
90	MOLECULAR TESTING	Blood	Women's Hereditary Cancer Panel: Breast, Ovary and Endometrium. (ATM, BARD1, BLM, BRCA1, BRCA2, BRIP1, CDH1, CHEK1, CHEK2, EPCAM, FAM175A, FGFR2, MLH1, MRE11A, MSH2, MSH6, MUTYH, NBN, NF1, NTHL1, PALB2, PMS2, PTEN, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RECQL, STK11, TP53, WRN, XRCC1, XRCC2, XRCC3, 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
91	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	BRCA 1+2 Gene Testing (Somatic)	Next Generation Sequencing



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92	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, CBF, 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#, ERRFI1, 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
93	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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94	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	CellIdx - (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
95	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	CellIdx - (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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96	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*, 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, FLT4, FOXA1, FOXL2*, FOXO1*, FYN**, GATA2, GLI1*, *Only Hotspot; ** Only CNV; # No CNV)	Next Generation Sequencing, Capillary electrophoresis and Immunohistochemistry
97	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, MITF, 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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98	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*, SLC01B3, 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
99	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	Gene Expression Analysis (Gene Expression: 20802 mRNA)	Next Generation Sequencing
100	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
101	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, CTNNB1, 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



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102	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
103	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



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104	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, CBFB, CBL, CCND1, CCND2, CCND3, CCNE1, CD274, CD276, CD79B, CDC73, CDH1, CDH10, CDK12, CDK4, CDK6, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CHEK1, CHEK2)	Next Generation Sequencing
105	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, 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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106	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, IKKB, 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
107	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, RSP02, RSP03, TERT)	Next Generation Sequencing
108	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



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109	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, 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, SLC01B3, SLX4, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SNCAIP, SOCS1, SOX2, SOX9, SPEN, SPOP)	Next Generation Sequencing
110	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, ZFXH3, ZMYM3, ZNF217, ZNF429, ZRSR2.)	Next Generation Sequencing
111	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, CBFB, 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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112	MOLECULAR TESTING	FFPE (Formalin-fixed Paraffin-embedded Tissue) / Fresh Tissue	TumorProbe - Tumor Mutation Burden analysis (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, 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
113	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



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114	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
115	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, 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, RSP02, RSP03, RUNX1, RUNX1T1, SDHA, SDHB, SDHC, SDHD, SETD2, SF3B1, SLC01B3, SLX4, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SNCAIP, SOCS1, SOX2, SOX9, SPEN, SPOP)	Next Generation Sequencing
116	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