

CANCERS TYPES:

- Lung
- Bladder
- Brain & CNS
- Breast
- Cervical
- Colorectal
- Endometrial
- Esophageal
- Gastric
- Head & Neck
- Kidney
- Liver
- Melanoma
- Ovarian
- Pancreatic
- Prostate
- Sarcoma
- Thyroid

PANEL INFORMATION:

Hotspot genes (SNVs) and short indels	Gene fusions	Exon skipping	Copy number genes (CNVs)	Tumor suppressor genes
AKT1, ALK, AR, ARAF, BRAF, CHEK2, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, ESR1, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, GNA11, GNAQ, GNAS, HRAS, IDH1, IDH2, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, NTRK1, NTRK3, PDGFRA, PIK3CA, RAF1, RET, ROS1, SF3B1, SMAD4, SMO	ALK,BRAF ERG,ETV1, FGFR1,FGFR2, FGFR3,MET, NTRK1,NTRK, RET, ROS1	MET exon 14 skipping	CCND1,CCND2, CCND3,CDK4, CDK6,EGFR, ERBB2,FGFR1, FGFR2,FGFR3, MET, MYC	APC,FBXW7, PTEN, TP53

WHO CAN BENEFIT FROM THIS TEST:

- For molecular tumor profiling in patients who may not be able to have a tissue biopsy due to the inaccessibility of their tumors or because they have other health conditions that prevent them from undergoing the invasive procedure.
- Monitoring treatment response in patients where CT scans are not sensitive enough
- Minimal Residual Disease monitoring. Regular profiling can quantify therapy response based on mutant allele frequency.

METHOD:

Next Generation Deep Sequencing. With minimal amounts of input DNA, profiling of multiple genes in a single assay including different tumor signatures like Single nucleotide variations (SNVs), Copy number variations (CNVs), Gene fusion events and Exon skipping event. The test utilizes cell free Total Nucleic Acid (cfTNA) content rather than just cfDNA with average sequencing coverage of 30000 – 40000X enable detection at extremely low allele frequencies

TEST SENSITIVITY:

Assay is validated inhouse using control and reference samples, with LOD down to 0.1% for SNVs

SAMPLE: 20 ml Blood in cfBCT (Streck/Paxgene) tubes. Doesn't require urgent shipping/cold-chain support. TAT: 2-3 weeks

Sensitivity	Specificity	LOD
>99%	100%	1%
>99%	100%	0.5%
≥82%	100%	0.1%



A REPROCELL COMPANY

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