



LungTrack Advance

NGS based liquid biopsy test

Minimally invasive

High precision multibiomarker

CAP accredited & extensively validated assay

Comprehensive analysis of SNVs, InDels & Fusions in Non-small cell lung cancer (NSCLC) patients using Blood (Plasma cfDNA)

Can be used as a **Complementary, Alternative, Reflex and Serial** to Tissue Biopsy Test

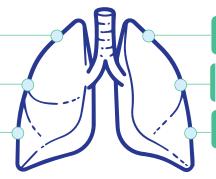


MedGenome Lung Cancer Liquid Biopsy Panel

NGS based CAP accredited assay to screen all the NCCN guided actionable biomarkers

Detects SNVs, Indels and Fusions, all known / unknown fusion gene partners are detected

Enhanced coverage of intronic region for key fusion genes and their reported partners



Only Blood is required; test is performed on plasma cfDNA

Variants (SNVs, InDels) can be detected at 0.2% VAF; Fusions >3 read support

Avg depth of sequencing: >20,000X (Pre UMI) I >1000X (Post UMI)

Clinical Applications

Diagnosis

Identifies Driver Mutations

Sensitizing EGFR mutations ALK, ROS1, RET rearrangements BRAF V600E NTRK gene fusions MET exon 14 skipping

MRD detection



Screening for patient-specific alterations

Comprehensive characterization of the primary tumor and design of tumor-informed high-resolution assays to guide adjuvant treatment and estimate prognosis

Early detection of recurrence & new clones



Monitoring of patient-specific alterations

ctDNA recurrence after surgery can predict clinical relapse

Acquired Resistance



Determines acquired resistance

Comprehensive characterization of ctDNA to detect resistance mechanism and identify novel occurring actionable targets

Limit of Detection (LOD)

Alteration Type	Analytical Sensitivity [#]	Limit of Detection (LOD)	Analytical Specificity##	
		30ng		
SNVs*	≥95%	>0.2 AF%	100%	
INDELS*	≥95%	>0.2 AF%	100%	
Fusions **	≥95%	≥3 Reads	100%	

*Analytical Sensitivity defined as the Detection Rate for variants present at or above the limit of detection (LoD).

##Analytical Specificity defined as 1 minus the per-sample false positive rate

MRD: Minimal Residual Disease

^{*} Tested on cfDNA reference standards

^{**} Tested on Lung track advance

Assay Specifications

Well - validated as per CAP guidelines

100% Scored in CAP proficiency evaluation program High throughput Illumina's sophisticated NGS sequencing platforms

Global standards for the best laboratory practices followed

Test Details

Sample Type

Peripheral Blood in Streck Tube (10ml X 2)

Test Code: MGM2623

Shipping Condition

Ship same or next day at room temperature. Do not freeze or refrigerate

TAT

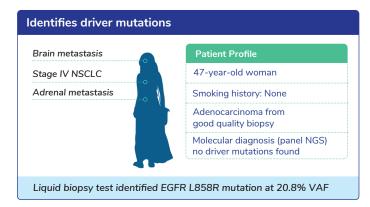
14 Working days from sample receipt at the laboratory to result

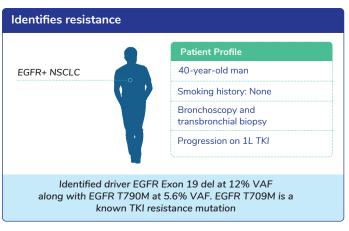
Gene List (SNVs, InDels & Fusions)

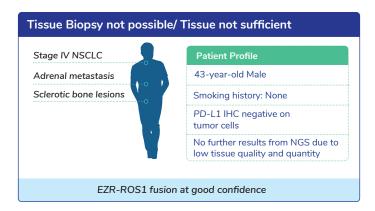
Point Mutations (SNVs), Insertion and Deletion Variants (InDels) - 24 Genes													
ALK	ERBB3	KRAS	NTRK2	BRAF	ERBB4	MAP2K1 (MEK)	NTRK3	CDKN2A	FGFR1	MET	PIK3CA		
CTNNB1	FGFR2	NRAS	RET	EGFR	FGFR3	NRG1	ROS1	ERBB2	KIT	NTRK1	TP53		

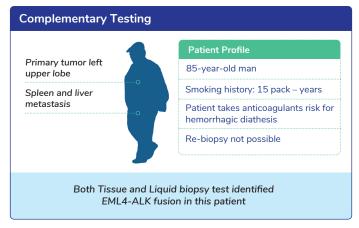
Fusions will be determined in genes highlighted as bold (12 genes) I Novel fusion partners can also be detected

Clinical scenarios for liquid biopsy test









MedGenome Liquid Biopsy NGS Assays

OncoTrack **Ultima** (Solid Tumors) LungTrack **Advance**

(SNVs, InDels, Fusions)

OncoTrack

(EGFR, BRAF, KRAS, NRAS)

HRR Track

(15 HRR Gene including BRCA1 & BRCA2)