

Introduction

The BGI SENTIS™ Lung Cancer Panel is a Next Generation Sequencing (NGS)-based genetic test that enables highly accurate mutation detection across the most clinically relevant genes associated with lung cancer.

The panel allows highly sensitive detection of actionable mutations across 20 genes from tissue or 13 genes from liquid biopsy samples, providing a comprehensive molecular profiling of lung cancer for clinicians and researchers.

The Power of Knowing

BGI SENTIS™ Lung Cancer Genetic Testing (Tissue/ctDNA)

Advantages

Comprehensive

A single assay that detects most common types of genomic alterations including base substitutions, InDel, CNV and fusions

Evidence-based therapeutic interpretation: providing molecular evidence for the consideration of more than 42 targeted therapies

Flexible

Accepts various sample types

- BGI SENTIS™ Lung Cancer Panel (Tissue): fresh tissue, FFPE, or DNA
- BGI SENTIS™ Non-invasive Lung Cancer Panel (ctDNA): peripheral blood or DNA

Reliable

Pathology check conducted on each FFPE sample to ensure good representation of tumor cells being tested

Sequencing depth: $\geq 500X$ (tissue) LOD:1%

Liquid biopsy version allows genetic profiling in situations where tissue is not available or continuous monitoring of tumor molecular profile is required.

Sequencing depth: $\geq 4000X$ (ctDNA) LOD:0.2%

The Power of Knowing

BGI SENTIS™ Lung Cancer Genetic Testing (Tissue/ctDNA)

Gene Panel

GENE	Mutation Types	GENE	Mutation Types
AKT1*	SNV	KRAS	SNV
ALK	Fusion, CNV, SNV	MAP2K1	SNV
BRAF	SNV	MET	Indel, CNV
DDR2*	SNV	NRAS	SNV
EGFR	SNV, Indel, CNV	NTRK1	Fusion
ERBB2	Indel, CNV	PIK3CA	SNV
FBXW7*	SNV	PTEN*	SNV
FGFR3	Fusion	RET	Fusion
HRAS*	SNV	ROS1	SNV, Fusion
KIT*	SNV	TP53*	SNV

*Genes not included for liquid biopsy

Sample Requirements

SENTIS™ Lung Cancer Panel (Tissue, 20 genes)

- >60mg tissue or 10 FFPE 10mm*10mm (5-10µm) sections or 2-3 samplings of biopsy or ≥500ng good quality, tumor DNA

SENTIS™ Non-invasive Lung Cancer Panel (ctDNA, 13 genes)

- ≥8mL of peripheral blood (separated plasma and formed elements) or ≥8mL of peripheral blood collected in Streck Cell-Free DNA BCT® tube

Contact your local BGI representative for more information or email info@bgi.com.

More information can also be found on our website.

www.bgi.com

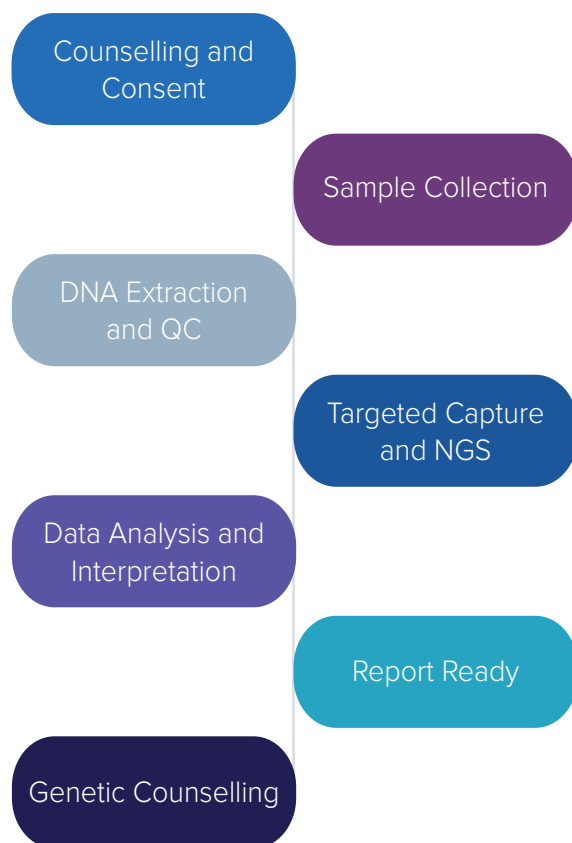
Turnaround Time

17 calendar days (from sample arriving at BGI lab to report)

Ordering Information

ITEM	CATALOG NO.
SENTIS™ Lung Cancer Panel (Tissue, 20 genes)	DX0664
SENTIS™ Non-invasive Lung Cancer Panel (ctDNA, 13 genes)	DX1459

Workflow



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Testing services not currently available in the United States of America. Please contact a representative for regional availability.

