

Research &
Pharma Solutions

Liquid Biopsy



Make Use of the Manifold Applications of Liquid Biopsies

The blood-based analysis of circulating tumor cells or tumor-derived nucleic acids is referred to as liquid biopsy. The main target of this analysis is cell-free DNA (cfDNA), which is released into the bloodstream by necrotic and apoptotic cells. Elevated levels of cfDNA are found in patients with cancer and other types of diseases. Since only a small fraction of the circulating DNA is derived from the tumor (circulating tumor DNA = ctDNA), highly sensitive detection methods are required.

Liquid biopsy applications are manifold, with several striking advantages over conventional tissue analysis. Most importantly, the analysis of liquid biopsies is based on a simple blood draw and, thus, easily repeatable.

Application areas of liquid biopsies:

- ✗ Monitoring of tumor disease
- ✗ Monitoring of treatment response
- ✗ Patient stratification and treatment selection
- ✗ Detection of minimal residual disease
- ✗ Early detection and profiling of resistance to therapy



Want to Discover More?
 We invite you to take a look at our website.
www.cegat.com/liquid-biopsy

Explore Our Product Portfolio for Liquid Biopsies

	LB Target	LB Focus	LB Exploratory	LB Flex
Species	Human			
Starting material	Whole blood (e.g., Streck® tubes), plasma, other body fluids, isolated nucleic acids			
Target	Single variants	36 gene panel (15.15 Kb)	523 gene panel (1.94 Mb)	Variable (Exome or Panel)
Technology	ddPCR analysis (commercially available assays or custom design)	NGS analysis		
Bioinformatic pipeline	n.a.	CeGaT bioinformatic pipeline	TSO500 (Illumina) bioinformatic pipeline	Illumina DRAGEN Bio-IT Platform
Duplex UMIs	n.a.	Yes		No
Variant type	SNVs	SNVs and indels	SNVs and indels, DNA fusions, CNVs, MSI, TMB	SNVs and indels
Included deliverables	Project report, DDP-CR, GLP	Project report, FASTQ, BAM, VCF, TSV	Project report, FASTQ, BAM, VCF, TSV, TMB/MSI report	Project report, FASTQ-files



About Us

CeGaT was founded in 2009 in Tübingen, Germany. Our scientists are specialized in next-generation sequencing (NGS) for genetic diagnostics, and we also provide a variety of sequencing services for research purposes and pharma solutions. Our sequencing service portfolio is complemented by analyses suited for microbiome, immunology, and translational oncology studies.

Our dedicated project management team of scientists and bio-informaticians works closely with you to develop the best strategy to realize your project. Depending on its scope, we select the most suitable library preparation and conditions on our sequencing platforms.

**We would be pleased to provide you with our excellent service.
Contact us today to start planning your next project.**



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