LeukoStrat®

FLT3-ITD and NPM1 Measurable Residual Disease Detection

RUO Kits

Background

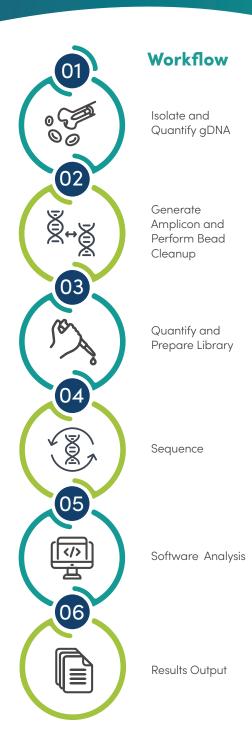
Measurable residual disease (MRD) is a critical biomarker in acute myeloid leukemia (AML) research and discovery. While each genetic profile of AML differs, the combination of genetic aberrations, such as the presence of *FLT3*-ITD and *NPM1* insertions, can provide information over the course of this disease. In a study evaluating the persistence of residual *FLT3*-ITD and *NPM1* mutations among subjects with AML in first remission prior to allogeneic cell transplant, those with an allele fraction $\geq 0.01\%$ trended towards elevated risk of relapse and mortality compared to those without these mutations. 12

Principle of the Procedure

Invivoscribe's targeted, deep-sequencing assays are easily implemented together, following identical, streamlined workflows. Designed for high-throughput laboratories, each kit configuration includes 24 master mixes, each containing a carefully-selected, unique dual-index to prevent cross-contamination due to barcode hopping. Software analysis is initiated through REST-API or command line interface. The data is output in a tab-separated value (TSV) file.

Key Benefits

- 1. Allelic sensitivity level of 0.005%
- 2. gDNA input from peripheral blood or bone marrow
- 3. Baseline sample not required
- 4. Dockerized software enables automated & standardized analysis
- 5. Compatible with multiple sequencing platforms





LeukoStrat®

Ordering Information



Catalog #	Product	Quantity
14120019	LeukoStrat FLT3-ITD MRD Assay	96 reactions
	Components	
	FLT3-ITD Positive Control	500 μL tube x 2 each
	FLT3-ITD Negative Control	500 μL tube x 2 each
	FLT3-ITD Master Mixes	75 μL tube x 24 each
S100005	LeukoStrat FLT3-ITD MRD Software	1 Dockerized Application
Learn more about the assay	Learn more about the software	





Product	Quantity
LeukoStrat NPM1 MRD Assay	96 reactions
Components	
NPM1 Positive Control	500 μ L tube x 2 each
NPM1 Negative Control	500 µL tube x 2 each
NPM1 Master Mixes	75 μL tube x 24 each
LeukoStrat NPM1 MRD Software	1 Dockerized Application
Learn more about the software	
	LeukoStrat NPM1 MRD Assay Components NPM1 Positive Control NPM1 Negative Control NPM1 Master Mixes LeukoStrat NPM1 MRD Software Learn more about

References

- 1. Dillon et al (2023) JAMA. 329(9):745-755.
- 2. Dillon et al (2024) JAMA Onc. 10(8):1104-1110.

