

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.^{1,2}

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

Workflow



Ordering Information

LeukoStrat®
FLT3-ITD MRD Assay

LeukoStrat®
FLT3-ITD MRD Software

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



LeukoStrat®
NPM1 MRD Assay

LeukoStrat®
NPM1 MRD Software

Catalog #	Product	Quantity
14160019	LeukoStrat NPM1 MRD Assay	96 reactions
	Components	
	NPM1 Positive Control	500 µL tube x 2 each
	NPM1 Negative Control	500 µL tube x 2 each
	NPM1 Master Mixes	75 µL tube x 24 each
S100004	LeukoStrat NPM1 MRD Software	1 Dockerized Application

Learn more about
the assay



Learn more about
the software



References

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

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