



# N<sup>NIPT</sup>

## LeoNext CfDNA Library Prep Kit

for Non-invasive Prenatal Testing



CE IVD

[www.genes2me.com](http://www.genes2me.com)

## About our NIPT Panel

LeoNext CfDNA Library Prep kit for Non-invasive Prenatal Testing (NIPT) is aimed to detect common trisomies, sex chromosomal aneuploidies and other rare aneuploidies in all 23 pairs of chromosomes employing next generation sequencing (NGS) Technology. This product is highly sensitive, robust and accurate and can additionally detect the microdeletions & duplications.

This product helps in construction of a cfDNA library which will be compatible with the commonly available sequencer platforms (Illumina, MGI, Element Biosciences (AVITI). The library preparation is performed on isolated circulating fetal DNA (cfDNA) from maternal blood sample which is A-tailed, adapter ligated and amplified to get a library that is ready to be sequenced.

### NIPT Offerings by G2M

#### NIPT- 23 pairs of chromosomes:-

Covers all 23 pairs of chromosomes – including autosomal aneuploidies (like Common trisomies: Down Syndrome (T21) Edward Syndrome (T18) Patau Syndrome (T13) and sex chromosomal aneuploidies.

#### NIPT- 23 pairs of chromosomes & 80+ deletions and duplications (large & micro) :-

Covers all 23 pairs of chromosome – including autosomal aneuploidies (like Common trisomies: Down Syndrome (T21) Edward Syndrome (T18) Patau Syndrome (T13), sex chromosomal aneuploidies and 66 Large deletions, duplications & 20 microdeletions and micro-duplication Syndromes.

Product Name	No of Reads (in Millions)
NIPT-All Chromosome	10-15 Million
NIPT-All Chromosome + Microdeletions & duplications	20-25 Million

#### Advantages of NIPT

- A Non-invasive genetic screening test, completely risk free assessment.
- Allows early accessibility of highly accurate data on all chromosomes of the fetus for informed pregnancy decisions.
- Helps to identify fetuses at risk of any serious chromosomal abnormalities.
- Completely safe and empowers expecting parents to support, manage and access early medical help if required.

## Data Analysis Platform

For Data analytics and reporting, our cloud based platform, Cliseq Interpreter's workflow pipelines are designed and tested to work seamlessly with a variety of G2M NGS Clinical Panels including NIPT. NIPT analysis is based on low-depth Whole genome sequencing. With Cliseq Interpreter software, the time to analyse the NIPT data and reporting is significantly reduced to upto 1 hour per sample.

Cliseq  
Interpreter

## Specifications

Methodology	Low-depth whole-genome sequencing
Sample collection	10 ml Whole blood in Streck tube or BD cell free DNA tube (10 - 20 ng of cfDNA)
Shipping temperature	4 - 8°C
Fetal Fraction	Min 3%
Gestational Age	10 weeks onwards

Note : The plasma sample should be stored at -80°C and checked prior for hemolysis

## Performance Characteristics

	Trisomy 13	Trisomy 18	Trisomy 21
Sensitivity (%)	100	100	100
Specificity (%)	99.96	99.95	99.96
PPV (%)	78.57	88.54	96.56
NPV (%)	100	100	100

Note : The data mentioned above is for > 3000 samples.

### Key Highlights of CliSeq NIPT

#### Panoramic view of the Fetal Genome

- Screens the entire genome of the fetus covering all 23 pairs of chromosomes
- Detection of 66 Large segment deletions & duplications, 20 microdeletions and duplications.

#### Enhanced Test Performance

- Low false positive or false negative results
- >99% call rate

#### Fastest Test results

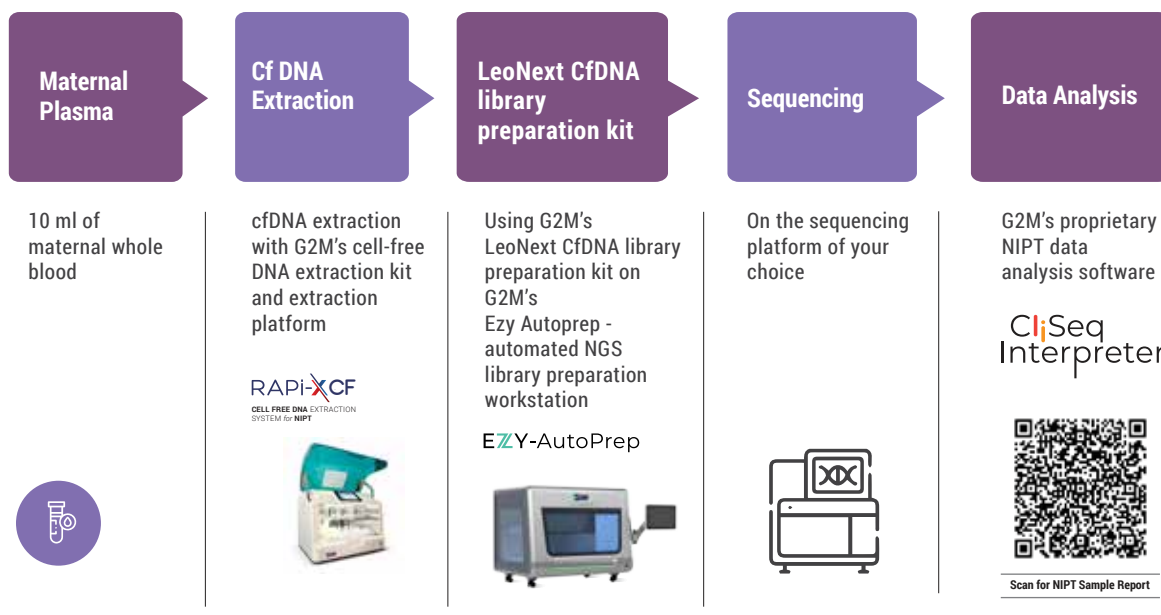
- Fast automated workflow
- Processing time ≤ 4 days

#### Extensively Validated on Clinical Samples

#### End-to-end solution

Supported with automated report generation using CliSeq Interpreter

## G2M NIPT END-TO-END Workflow



### ORDERING INFORMATION

#### Commercial Name

#### Cat No.

LeoNext cfDNA LibraryPrep Kit for NIPT

NGS3105-01 ; NGS3105-02 ; NGS3105-03



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