



## Peace of Mind From a Single Drop

Over 11,520,000+ Tests Conducted

NIFTY® (Non-Invasive Fetal Trisomy test) provided by BGI is a safe and easy prenatal test for detecting fetal chromosomal abnormalities. During pregnancy, the cell-free fetal DNA will circulate into the mother's blood-stream. NIFTY® will require taking > 6mL of the mother's peripheral blood to analyze cell-free fetal DNA. Using the Next Generation Sequencing technology along with bioinformatics analysis to calculate the risk of having a fetus with chromosomal abnormalities.



### Trisomies

Trisomy 21  
(Down syndrome)  
Trisomy 18  
(Edwards syndrome)  
Trisomy 13  
(Patau syndrome)

### Sex Chromosome Aneuploidies

Monosomy X  
(Turner Syndrome)  
XXY  
(Klinefelter Syndrome)  
XXX  
(Triple-X Syndrome)  
XYY  
(Jacobs syndrome)

### Sex Indication

Y Chromosome detection



### Trisomy of all autosomes, including

Trisomy 21  
(Down syndrome)  
Trisomy 18  
(Edwards syndrome)  
Trisomy 13  
(Patau syndrome)  
Trisomy 9  
Trisomy 16  
Trisomy 22

### Sex Chromosome Aneuploidies

Monosomy X  
(Turner Syndrome)  
XXY  
(Klinefelter Syndrome)  
XXX  
(Triple-X Syndrome)  
XYY  
(Jacobs syndrome)

### Sex Indication

Y Chromosome detection

### 84 micro deletion/ duplication, including:

5p (Cri-du-Chat syndrome)  
1p36  
2q33.1  
Prader-Willi/ Angelman Syndrome (15q11.2)  
Jacobsen Syndrome (11q23)  
DiGeorge Syndrome (22q11.2)  
16p12  
Van der Woude Syndrome (1q32.2)

### Incidental findings

Other information about potential fetal diseases



### Accurate

Proven >99% sensitivity for T21, 18 & 13, based on a study of nearly 147,000 pregnancies



### Safe

Non-invasive with **no risk** of miscarriage



### Trusted

Over 11,520,000 NIFTY® tests carried out to date by clinicians from more than 80 countries



### Comprehensive

Detecting chromosomal disorders across **23** pairs of chromosomes



### Early

The test could be done as early as **10 weeks** or above of pregnancy



### Simple

Test from a small >6ml maternal blood sample



### Quick

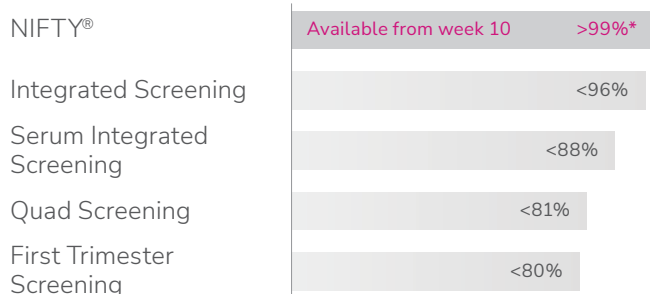
**5 working days** at the fastest



### Insured

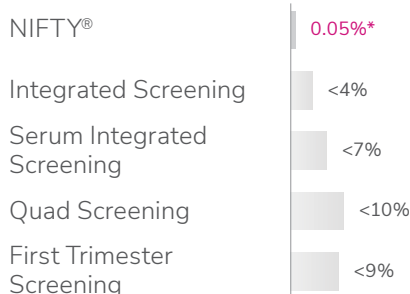
Offering insurance in cases of false positive or false negative

## Comparison of Detection Rates Between NIFTY® and Traditional Screening Tests



\*Non-Invasive Prenatal Testing For Trisomy 21, 18 and 13 – Clinical Experience from 146,958 Pregnancies, Wei Wang et al, Journal of Ultrasound in Obstetrics and Gynecology

## Comparison of False Positive Rates (FPR) Between NIFTY® and Traditional Screening Tests

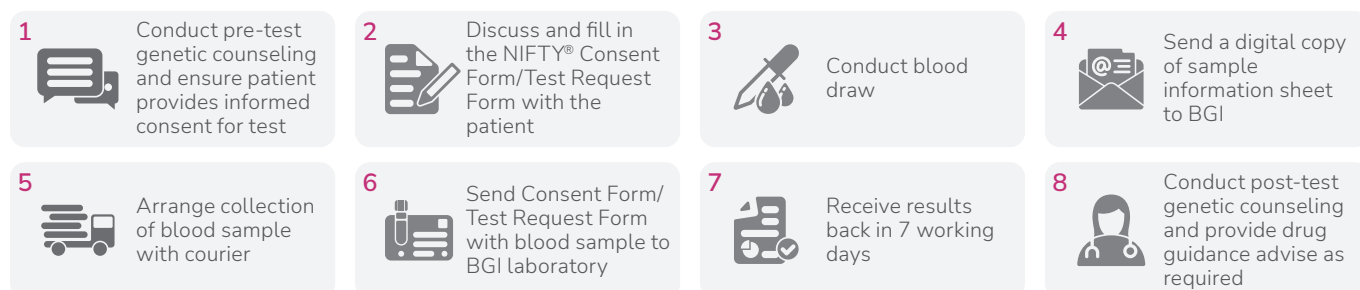


\*Accuracy figures quoted from various publicly available data sources.

## Sample Requirements

Sample Type	Quantity	Requirements	Shipment
Maternal Blood	>6ml	Using authorised cell-free DNA blood collection tubes	Stored and shipped between 6~35 °C within 4 days. Keep the tubes upright during shipping.
Plasma	2.25ml	Plasma separation needs to be completed within 96 hours.	Stored and shipped in no higher than -20 °C within 7 days.

## Workflow



## The test is suitable for but not limited to

- ✓ Women who would like to avoid miscarriage risk following invasive prenatal testing.
- ✓ History of a prior pregnancy with a chromosomal abnormality.
- ✓ Down syndrome screening indicating an increased risk of abnormalities.
- ✓ Pregnancy following IVF or history of recurrent miscarriage.
- ✓ A pregnant woman who wishes to have a highly accurate result on whether her baby has Down syndrome.

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For a complete listing of our global offices, please visit [www.bgi.com/global/company/contact-us](http://www.bgi.com/global/company/contact-us).

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The NGS sequencers / kits / services are not available in Hong Kong and US. Please contact a representative for regional availability.



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