

Non-Invasive Prenatal Testing Integrated Total solution

The Choice for Peace of Mind

Accurate & Early Screening
Safe for Mother and Baby



NIPT

Comprehensive Screening for a Healthy Future

Non-invasive Prenatal Testing (NIPT) powered by CYGNUS sequencers requires just 5mL of maternal peripheral blood. Reliable fetal chromosomal aneuploidy screening is available as early as 12 weeks of gestation.

A detailed look at our NIPT Panel:

Screening Category	Conditions Covered	
Standard Panel (NIPT)	Trisomy 21/Trisomy 18/Trisomy 13 Sex Chromosome Aneuploidies (SCAs)	
Expanded Panel (NIPT-Plus)	Trisomy 21/Trisomy 18/Trisomy 13 Sex Chromosome Aneuploidies (SCAs)	21 Rare Autosomal Aneuploidies (RAAs) 105 Pathogenic Microdeletions/Microduplications

Who should be offered CYGNUS NIPT?

- Pregnant women of advanced maternal age (typically ≥ 35 years).
- Those with abnormal results from first-trimester or second-trimester serum screening.
- Couples with a family history of chromosomal abnormalities or genetic diseases.
- Pregnant women with ultrasound findings suggesting fetal structural anomalies.
- Those who have previously had a fetus or child with chromosomal abnormalities.
- Pregnant women seeking a more comprehensive non-invasive prenatal screening.

Why choose CYGNUS NIPT?

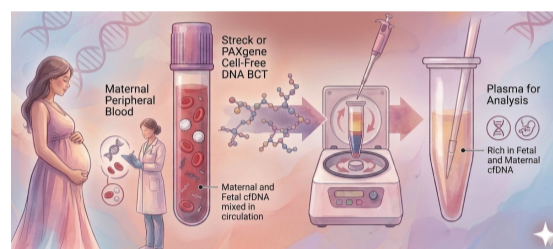
Safe: No needles or invasive procedures, safe for both mother and baby.

Rapid: No long wait time—our accelerated process delivers clear, actionable results quickly.

Affordable: Advanced prenatal insights that don't break the bank.

Sample Type

- Peripheral Blood 5ml
- Plasma 600 μ L



CYGNUS Total Solution

CYGNUS' s NIPT: Powered by our proprietary high-throughput **sequencers**, offering a complete solution of **instruments**, **reagents** and **software** for the full workflow. CYGNUS' s localized NIPT delivers results in just 15 hours.



Precision at the Core: Our Technological Foundation

GS-Series sequencer : Compact, user-friendly and highly adaptable, the GS-Series desktop sequencer delivers flexible throughput and superior accuracy. Powered by CYGNUS’ proprietary Fluorogenic sequencing chemistry, it achieves groundbreaking advancements in optics, fluidics and biochemistry.

- High Quality
Q40 ≥ 85% for accurate, reliable data.
- Efficient Prep
Supports linear libraries with simplified workflows.
- Flexible Runs
Chips (Data output: 25M/100M/200M/400M reads per slide)
enable on-demand sequencing without sample pooling.
- Wide Compatibility
Works with diverse libraries and reagents for multiple applications.

GS100 / GS200



CYGNUS X1 Bioinformatics workstation: Covers four core analysis areas pathogens, genetics, reproductive health and pharmacogenomics. Featuring standardized bioinformatics plugins. With local offline deployment, it ensures robust data security and operational flexibility. Scalable and customizable, it adapts smoothly to projects of all scales.

- Versatile Functions
Multiple bioinformatics plugins for diverse applications
- Data Security
Offline operation ensures full data privacy and protection.
- Easy to Use
No complex commands, simple training for quick mastery
- Smart Management
Real-time monitoring for stable memory and storage



Order information

Catalog.No	Name
115-002-101	GS200 Sequencing System
G-125-013-101	Q2C Reagent Kit (SE100) 200M
G-125-022-101	Q3C Reagent Kit (SE100) 400M
G-211-198-101	Magnetic Bead cfDNA Extraction(200rxn)
G-211-181-101	Fetal Chromosomal Aneuploidy Detection Kit(48rxn)
214-012-101	CYGNUS X1 Pro

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