

Patient Guardian Signature

Date DD | MM | YY

NON-INVASIVE PRENATAL SCREENING TEST REQUISITION FORM



A Labour Lead Lade				
PATIENT INI	ORMATION			
Surname	First Name		TOD LAD LIST ONLY	
MRN	Patient ID		FOR LAB USE ONLY	
Date of Birth DD MM YY	Weight (kg) Hei	ght (cm)		
PATIENT INFORMED CONSEN	T STATEMENT		ACCOUNT INFORMATION	
* I consent to the test of NIFTY, a non-invasive prenatal screening. I confirm that I have acknowledged, understood and agree to the Informed Consent provided on the BACK PAGE of this form. I confirm that I have had the opportunity to discuss the test and ask relevant questions with my physician, and I have fully understood the indication, intended purpose, procedure, eligibility, limitations, and potential risks of this test as explained to me by my physician.		Account Numbe	er	
		Ordering Clinician		
		Client Name		
			CLINICAL INFORMATION	
		Gestational Age	days	
□ * I confirm that I have read the Priva PAGE of this form.	acy Policy on the BACK	Estimated Due [Date DD MM YY	
		No. of Fetus	☐ Singleton ☐ Twins	
means and for purposes defined in to * I confirm the personal information	, ,	First Sampling	☐ Yes ☐ No, code of first sampling	
and correct.	Thave provided is true			
☐ I consent to the preservation and use specimens and de-identified test resi		PATIENT'S MEDICAL CONDITION		
database for the laboratory's quality improvement, research and validation purposes as stated in the Informed		Received allogenic blood transfusion: No Yes, date of receiving DD MM YY		
Consent.	stated in the imornied	Received hepari		
Patient Signature or Patient Guardian Signature		□ No □ Yes, date last taken □□ MM YY		
Date DD MM YY		Received immunotherapy and/or human serum albumin therapy:		
* In accordance with the applicable regulations, we are not permitted to conduct our test without these consents.			es, date of last injection DD MM YY	
		Diagnosed with vanishing twin syndrome:		
TEST OPTIONS			es, date of vanishing DD MM YY	
 □ NIFTY® - Trisomy 21, Trisomy 18, Trisomy 13 □ Sex Chromosome Aneuploidies (optional for singletons only) 		Received assisted reproductive technology treatment: No Yes, please specify		
		Family history of genetic disease(s) or syndromes:		
□ NIFTY ® Pro - Trisomy 21, Trisomy 18 9, Trisomy 16, Trisomy 22, Sex Chrom	osome Aneuploidies dies, 92 types of	□ No □ Yes, please specify		
(for singletons only), other Aneuploid Microdeletion and Microduplication		Abnormal reproductive history: ☐ No ☐ Yes, please specify		
Fetal sex to be reported ☐ Yes			ss of other prenatal:	
·		□ No □ Yes, please specify		
SPECIAL SAMPLE CONCE		HEA	ALTHCARE PROVIDER STATEMENT	
I understand that my sample may not meet the acceptance criteria for the following reasons:		I confirm that the patient understands the purpose,		
Samples must arrive in the laborator withdrawal			ntial risks, scope and performance of the test rself. The patient has given full consent for this	
Gestational weeks more than 24 weeBMI more than 40.		test.	,	
I am fully aware of the associated risks of including failed and/or inaccurate test r	esults, and am still	Doctor Signatu	re	
willing to continue to test and accept the	e risks.	Date DD	MM I YY	
Patient Signature or				

IMPORTANT BLOOD COLLECTION INFORMATION

Time AM PM

Date DD | MM | YY



NON-INVASIVE PRENATAL SCREENING PATIENT CONSENT FORM



PURPOSE

NIFTY® & NIFTY® Pro are intended to screen fetal trisomy 21, 18, and 13 for pregnancies. Depending on your choice, further details about the clinical condition of the fetus can also be provided, including information on trisomy 22, 9, and 16, sex chromosome aneuploidy, other autosomal trisomy, 92 kinds of microdeletion/microduplication syndromes, and Y chromosome conditions (for sex inference).

TEST PROCEDURE

For each test option you choose, a tube of blood will be drawn and sent to NRL laboratory, which will then analyze your DNA using molecular genetics technology. Before and after undertaking the tests, you should consult with the healthcare professionals regarding any risks, diagnoses, treatment and/or any other potentially relevant healthcare issues.

ELIGIBILITY

Patients should be at least 10 weeks' gestational age. Perform the test before 24 gestational weeks of pregnancy to have enough time for further diagnosis or procedure.

Patients who have the following situations are NOT ELIGIBLE for NIFTY® or NIFTY® Pro:

- Have chromosomal abnormality (couples);
- · Pregnancy with triplets or more fetuses;
- Have malignant tumors;
- · Received transplant surgery or stem cell therapy;
- Received allogeneic blood transfusion within one year;
- Received human serum albumin therapy and/or exogenous DNA cells introduced immunotherapy within four weeks;
- Fetal ultrasound scan indicates structural abnormality;
- Have vanishing twin syndrome, unless it has been identified that the developmental arrest occurred within the first eight weeks of pregnancy and more than eight weeks prior to the date of the test.

Patients with the following conditions have a high risk of maternal genetic background for abnormalities which may cause inaccurate test results. Please check the patients' genetics and medical reports, if any, prior to their test. In these cases, the decision to undergo the tests or not should be made by the patients and/or their health provider in conjunction with local medical and bioethics guidelines, laws and/or regulations. Signing this form means you are fully aware of and willing to accept the risks:

- Patients received Assisted Reproductive Technology therapy (including In- Vitro Fertilization & Embryo Transfer, Intracytoplasmic Sperm Injection, In- Vitro maturation, In-Vitro Gametogenesis, Germinal Vesicle Transfer, Egg/Sperm Donation, Surrogacy);
- Patients who have a history of abnormal pregnancy, or family history of genetic disease or abnormal phenotype;
- Another screening result indicates fetal abnormality.
- Pregnancy with twins or vanishing twin.

TEST LIMITATION

The tests are NOT intended nor validated for diagnostic purposes; thus, the result cannot be used as the sole evidence for a diagnostic conclusion. The sensitivity and specificity of the tests are based on singleton pregnancies. According to studies and theory, the tests perform similarly in twin and singleton pregnancies. The tests cannot be used to predict diseases that are not in the test scope or rule out risks in patients' families.

A false negative/positive result cannot be totally excluded. Due to the limitations of current medical detection technology and individual differences of the subject, potential sources of false positive or false negative results include, but are not limited to: maternal, fetal and/or placental mosaicism, low fetal fraction, blood transfusion.

'Vanishing twin syndrome' may also cause test inaccuracy in the event of twin pregnancy testing.

Abnormalities caused by chromosomal polyploid (triploid, tetraploid, etc.), chromosomal translocation, inversion, ring, UPD, monogenic/polygenic disease, imprinting disorders, etc., cannot be detected by this test; this test cannot exclude the fetal chimeric chromosomal abnormalities.

	Sensitivity Rate Singleton		Sensitivity Rate Twin	
Trisomy 21	99.17%		90.91%	
Trisomy 18	98.24%		100.00%	
Trisomy 13	>99.90%		Not available	
Gender identification	99.53%		Not available	
Sex Chromosome Aneuploidies	99.60%		Not available	
Microdeletions/	>10Mb	88.89%	Not available	
Microduplications	<10Mb	72.73%	ivot avallable	

Pafaranca:

- Zhang H, Gao Y, Jiang F, et al. Non-invasive prenatal testing for trisomies 21, 18 and 13: clinical experience from 146 958 pregnancies[J]. Ultrasound in Obstetrics & Gynecology, 2015, 45(5): 530-538.
- Pan X, Zhang C, Li X, et al. Non-invasive fetal sex determination by maternal plasma sequencing and application in X-linked disorder counseling[J]. The Journal of Maternal-Fetal & Neonatal Medicine, 2014, 27(18): 1829-1833.
- Rose N C, Barrie E S, Malinowski J, et al. Systematic evidence-based review: The application of noninvasive prenatal screening using cell-free DNA in general-risk pregnancies[J]. Genetics in Medicine, 2022, 24(7): 1379- 1391.
- Liu H, Gao Y, Hu Z, et al. Performance evaluation of NIPT in detection of chromosomal copy number variants using low-coverage whole-genome sequencing of plasma DNA[J]. PLoS One, 2016, 11(7): e0159233.
- Wu HY, Wang H, Zhao QM, et al. Performance analysis of non-invasive prenatal testing in twin pregnant women[J]. Maternal and Child Health Care of China, November 2022, Vol 37, No 22.

RESULTS

Reports will be available within 7-10 working days from the time the laboratory receives the sample. Results will be sent only to the undersigned healthcare provider due to their complexity and implications. Patients should contact their healthcare provider for test results and interpretation. High-risk results should be followed by confirmatory diagnostic tests.

Occasionally samples fail quality control and/or the initial analysis cannot reach a conclusion. This may require resampling and/or reanalysis, which will be offered free but may delay your report as extra days may be needed for processing. You will be notified by your healthcare provider if this happens.

PRIVACY POLICY

By signing the consent you agree and give permission for the personal data and clinical information included in this test requisition form as well as your blood sample, to be sent to National Reference Laboratory LLC. (NRL) to perform the NIFTY screening test. NRL may store your personal data (including the test results) and remaining sample (if any).

The NIFTY screening test will be performed in the UAE by NRL. Under certain circumstances NRL may subcontract with other laboratories approved to perform the NIFTY test and/or may need to use technical support and maintenance services in relation to the equipment used to perform the test. Under these circumstances, should NRL need to transfer your personal data to countries outside the UAE, the transfer will be made in accordance with all UAE laws and relevant authorities regulations.

USE OF LEFTOVER SPECIMENS AND INFORMATION

In compliance with better practices, your de-identified specimens may be utilized for the statistics database for the laboratory's quality improvement, research and validation purposes.

RIGHT OF REVOCATION

You may contact your service provider to revoke your consent to the test in full or in part at any time, without providing a reason. You have the right not to be informed of test results (right not to know), to halt testing processes at any time prior to receiving the results, and to request the destruction of all test materials and results.