

eluthia

prenatal care



Your specialised laboratory for non-invasive prenatal testing

Congratulations on your pregnancy!

The majority of pregnancies result in a healthy baby. However, since there is a small risk of deformities, your gynaecologist will perform an ultrasound examination on you. There are various genetic abnormalities that are not visible, or are only barely visible on the ultrasound scan. Non-invasive prenatal tests (NIPTs), which can detect certain deviations, can therefore complement the ultrasound examination.

With the help of this brochure, we would like to support you in finding the NIPT that is right for you.

How do NIPTs work?

During pregnancy, small fragments of your baby's DNA, or more precisely from the placenta, can be found in your blood. By analysing these DNA fragments, the NIPT can determine the risk of your child being affected by one of the genetic changes tested for.

Although NIPTs are very safe, in rare cases an NIPT may identify an increased risk of a genetic abnormality even though the child may not have such an abnormality. Therefore, test results showing an increased risk are usually confirmed with a diagnostic test. In far rarer cases, it may also be the case that a low risk is falsely indicated for an affected child.

NIPT Classic

Optimised for screening for trisomies 21, 18 and 13

What does the NIPT Classic (Vanadis®) do?

The Vanadis® test has been optimised to reliably detect trisomies 21, 18 and 13. It is the only NIPT in the world to use the rolling circle replication method, which is particularly reliable because it does not require PCR or DNA sequencing.

We can analyse about 1.8 million DNA fragments from your blood, which come from chromosomes 21, 18 and 13. Due to the high number of data points in the evaluation, we obtain a reliable result and thus minimise possible test failures*.

How accurate is the test?

Over 99% of all trisomies 21, over 92% of all trisomies 18 and over 96% of all trisomies 13 are detected. No result can be determined in less than 0.5% of all tests.

How does the test work?

Your blood sample will be analysed in our laboratory in Giessen. The result of the test is usually available within five days of receipt of the sample, and is sent to your doctor immediately. Your gynaecologist will then discuss the results with you.

*Test failure: No result after repeated analysis

Vanadis®

NIPT Extended

Optimised for screening for sex chromosome maldistributions, as well as for microdeletions and for twin pregnancies

What can the NIPT Extended (Panorama™) do?

The Panorama™ test is based on the unique "SNP technology". This makes the test particularly suitable for detecting sex chromosome maldistributions and microdeletions. In the case of twin pregnancies, the Panorama™ test provides important information which no other NIPT can provide.

How accurate is the test?

An analysis of 1.3 million sex determinations made with the Panorama™ test suggests that the test provides by far the most accurate results in determining the sex of the child.

How does the test work?

Your blood sample will be collected by our courier and analysed in cooperation with our partner laboratory Zotz Klimas (Düsseldorf). The result of the test is usually available nine to twelve days after receipt of the sample, and is sent to your doctor immediately. Your gynaecologist will then discuss the results with you.



Panorama™
Next-generation NIPT

NIPT Special

Optimised for screening for major single-gene diseases

What can the NIPT Special (UNITY™) do?

Due to the new "QCT technology", the UNITY™ test is the only test available worldwide that makes it possible to screen prenatally and non-invasively for cystic fibrosis and spinal muscular atrophy (SMA), as well as sickle cell disease and thalassaemia. Some of these can lead to death in childhood or adolescence. In Northern Europe, one in 225 couples has the genetic predispositions for one of the diseases studied, which have a 25% probability of resulting in a sick child. For the particularly severe form, SMA type I, there is now a gene therapy drug of which the optimal efficacy requires the earliest possible diagnosis.

How accurate is the test?

The test detects between 90% (SMA) and 99% (cystic fibrosis) of all affected fetuses.

How does the test work?

Your blood sample will be analysed at our partner laboratory BillionToOne in California. The result for the single-gene disorders is usually sent to your doctor 14-21 days after receipt of the sample, and the other results (trisomies, sex chromosomes) usually one to two weeks earlier.

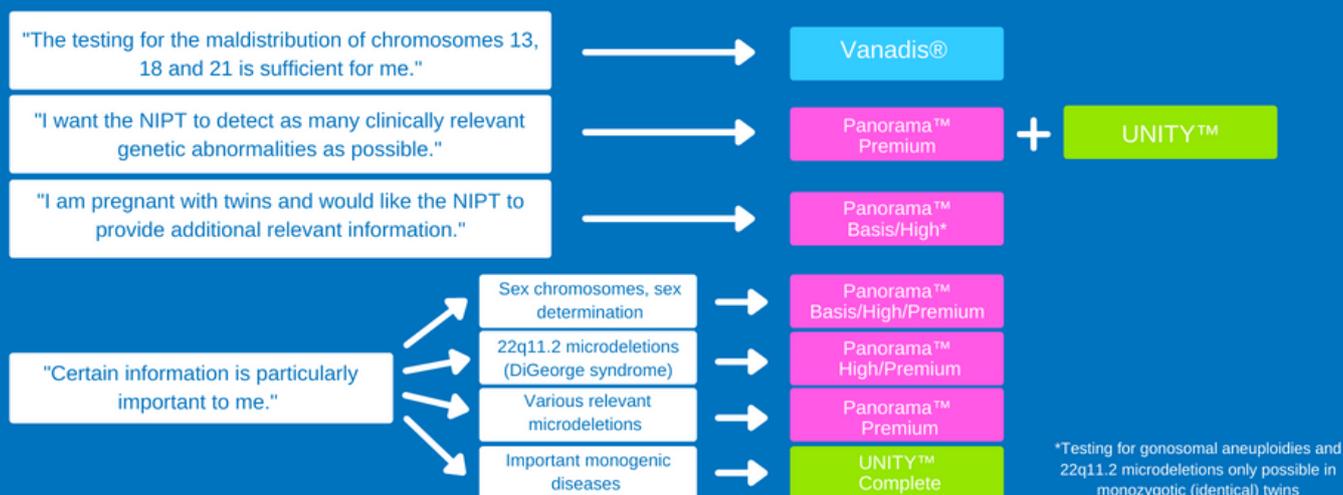


Eluthia's prenatal testing options and selection guide

NIPT options	NIPT Classic	NIPT Extended			NIPT Special	
	Vanadis®	Panorama™ Basis	Panorama™ High	Panorama™ Premium	UNITY™	UNITY™ Complete
Trisomies 13, 18, 21	✓	✓	✓	✓		✓
Sex determination (optional)	✓	✓	✓	✓		✓
Triploidy, bladder mole		✓	✓	✓		
gonosomal aneuploidies*		✓	✓	✓		✓
22q11.2 microdeletions			✓	✓		
4 other microdeletion syndromes				✓		
Spinal muscular atrophy					✓	✓
Cystic fibrosis					✓	✓
Sickle cell disease					✓	✓
α- and β-thalassaemia					✓	✓
Price	179,00 €	299,00 €	319,00 €	449,00 €	449,00 €	549,00 €

*Maldistribution of the sex chromosomes

Your preference:



Why choose Eluthia?

Eluthia is an independent laboratory based in Giessen. We specialise in non-invasive prenatal testing (NIPT) and offer customised testing options for you and your baby.

As we do not belong to any laboratory chain and are not contractually bound, we can offer you globally unique NIPT solutions. Our well-connected team of experts (biologists, human geneticists, gynaecologists and prenatal physicians) is in contact with numerous laboratories at home and abroad in order to always be able to offer you the most advanced and safest tests.

Our aim is to be able to offer every pregnant woman the test that is most suitable for her.

We strive to offer you the best service at all times. If you have any questions or suggestions, or if you are not satisfied with one of our services, we would be pleased to receive your feedback.

Contact us!

You can find more information online at:

www.eluthia.com



Contact our team:

Tel: +49 641 969932660

E-Mail: info@eluthia.com

We are looking forward to your call!

Eluthia GmbH
Siemensstraße 7
35394 Gießen
Deutschland

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