

## FAQ

### What are the costs of the non-invasive fetal genotyping in maternal plasma?

The costs of performing the test are approximately €1653,- excluding transport costs.

### How do I pay for the non-invasive fetal genotyping in maternal plasma?

Ensure to fill out the billing address on the request form. After the test is performed, an invoice will be sent. Payment should be made by bank transfer upon receipt of the invoice to:

Sanquin Diagnostiek B.V.  
IBAN NL18 ABNA 0524 4956 29  
BIC ABNANL2A  
Trade reg. Amsterdam 67177476  
VAT number NL856862794B01

Company Name : Sanquin Diagnostics  
Address : Plesmanlaan 125  
P.O.Box : 9190  
Postalcode : 1006AD  
Place : Amsterdam

Country : The Netherlands  
Telephone-number : +31205123272

### What are the transport costs?

This depends on the shipping company used. Usually between €50,- and €100,-. Sanquin Diagnostics doesn't support shipment.

### Can I bill my insurance company for this?

You have to check with your insurance company.

### What are the blood sample requirements, storage and shipping instructions?

You can find all the information about collecting the material, the shipping and the needed forms on the website.

Please see:

<https://www.sanquin.org/products-and-services/diagnostics/non-invasive-fetal-blood-group-genotyping>

You can find the information and request form here. Please read the instructions carefully and inform us (including initials and date of birth of the pregnant lady) by mail if you intend to send the samples.

### How long does it take to receive the results?

The results will be sent by secure mail in approximately one week.

### What is the accuracy of the results for positive and negative cases (sensitivity/specificity)?

*The ddPCR assay for non-invasive fetal blood group and platelet antigen genotyping, developed for use in alloimmunized pregnant women, demonstrates exceptional performance. Sensitivity and specificity exceed 99%, providing highly reliable results for fetal RHD, RHE, RHc, RHC, K1, HPA-1a, and HPA-5b genotyping. In our study involving 229 alloimmunized pregnant women, the assay achieved a success rate of 98.4% [1]. The assay integrates robust fetal controls—methylated RASSF1a (mRASSF1a) and sex-specific markers (SRY/DYS14)—to ensure accurate fetal genotype reporting.*

[1] Camilla Calandrini, Onno J H M Verhagen, Ahmed Tissoudali, Christa H E Homburg, Jessica Vessies, Mark Brussee, Erik H van Beers, C Ellen van der Schoot, Masja de Haas, Real-world performance of a clinical droplet digital polymerase chain reaction assay for non-invasive foetal blood group and platelet antigen genotyping of alloimmunized pregnant women with antibodies directed against RhD, RhE, Rhc, RhC, K1, HPA-1a or HPA-5b: A 1-year experience, 2024 Dec 8, Vox Sang

### How do I inform your laboratory about performing a test?

Have your physician inform our laboratory via e-mail about impending shipment regarding patient name, antigen type requested and gestational age before shipping the sample.

[ihdiagnostiek.dna@sanquin.nl](mailto:ihdiagnostiek.dna@sanquin.nl)

### What is the minimal age of gestation for performing the non-invasive fetal genotyping with maternal plasma?

See table below.

Fetal genotyping	Minimal age of gestation
D, C, c, E, K1, HPA-1a, HP5b	> 9 weeks but preference for ≥ 11 weeks

### What are STRECK tubes (Cell-Free DNA BCT®)?

Streck tubes are blood collection tubes, with a formaldehyde-free preservative stabilizing nucleated blood cells. This unique stabilization prevents the release of genomic DNA and therefore lowers the background signals derived from maternal DNA.

### How to get STRECK tubes?

If you do not have Streck tubes available, please let us know and we will send you the tubes and transport materials.

You can also order STRECK tubes from the company ([Cell-Free DNA BCT RUO & CE - Streck](#)).