Instructions for Non-invasive Cell-free Fetal DNA Testing

- 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).

<table>
<thead>
<tr>
<th>Fetal genotyping</th>
<th>Minimal age of gestation</th>
<th>Sample requirements</th>
<th>Shipment restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>D, C, c, E</td>
<td>&gt; 9 weeks but preference for ≥ 12 weeks negative result repeated &gt;20 weeks</td>
<td>Mother: 30 mL in Streck tubes Father: 10 mL EDTA</td>
<td>Between 10 and 30 ºC Transport &lt; 6 days</td>
</tr>
<tr>
<td>K1</td>
<td>≥ 14 weeks negative result repeated &gt;20 weeks</td>
<td>idem</td>
<td>Between 10 and 30 ºC Transport &lt; 6 days</td>
</tr>
<tr>
<td>HPA-1a</td>
<td>&gt;17 weeks but preference ≥ 19 weeks negative result repeated &gt;20 weeks</td>
<td>idem</td>
<td>Between 10 and 30 ºC Transport &lt; 6 days</td>
</tr>
</tbody>
</table>

Collect at least 30 mL blood from the pregnant woman in 3 (three) STRECK tubes for maternal sample (10 ml/tube) and collect 10 mL of blood from the biological father in an EDTA anti-coagulated (purple top) tube and include with the maternal sample.

- STRECK tubes prevent degradation of maternal white blood cells, so the maternal DNA will not interfere with fetal genotyping assay. STRECK tubes are the “tiger top” tubes used by many of the companies in the U.S. for performing free fetal DNA testing for aneuploidies.

- For HPA-1a and K typing a 2nd maternal sample in 3 STRECK tubes should be collected after 20 weeks gestation to confirm an initial result that indicates a negative antigen result for the fetus. In general this is not necessary for RhD, C, c, E typing.

- Ensure to fill out the billing address on the request form. After the test is performed, an invoice will be sent. Cost are 800 euros, which includes the paternal sample and 2nd maternal sample, if they are needed. 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: 1006 AD
Place: Amsterdam
Country: The Netherlands
Telephone-number: +31205123272

Helpful shipping instructions:

- Please send the blood samples by courier. If it is difficult for you to arrange this, it is possible to use our account number for FedEx with Sanquin, The Netherlands as receiving partner (this account number can be requested by mail ihdiagnostiek.dna@sanquin.nl).
- FedEx Priority should be used as the shipping option: The lab who drew the test can be in communication with FedEx Priority Alert, and speak to an account representative who can set up an executive account. This may allow for more verification about the temperature control and help them to obtain the special packaging required for shipping of biohazard materials.
- Address information for shipping:
  Sanquin Diagnostic Services
  Immunohematology / DNA (Q2)
  Plesmanlaan 125
  1066CX Amsterdam
  The Netherlands
  Phone: +31205123373
  Fax: +31205123685