

Genetic Test Specimen Requirements – 2015

HeartGenetics, Genetics and Biotechnology, SA guarantees accurate genetic results when the following instructions are followed:

1. Fulfil the *Molecular Test Requisition Form*.

Please note that it is mandatory to sign the informed consent and to fulfil the physician information.

2. Specimen Requirements and Shipping Instructions.

2.1 Standard Operating Procedure for blood sample (best option):

(We accept samples from Monday-Friday)

- Volume and collection: 4 mL or 2X 3mL of whole sterile peripheral blood collected in a plastic whole blood tube with spray-coated K₂EDTA or K₃EDTA. EDTA or citrate must be preferentially used as anticoagulants since heparin is a potential inhibitor of the PCR.
- Labelling: Label the tube with the patient acronym, date of collection and consultancy referral number.
- Rejection: Blood specimens will be rejected if frozen, haemolysed or clotted.
- Shipping: Send at room temperature in a padded envelope. Ship immediately so HeartGenetics can receive it within 48 hours after collection.
- Company: Any standard or express postal service (DHL, FEDEX, ...)

HeartGenetics requires a minimum of 0.4 ml of blood.

HeartGenetics, Genetics and Biotechnology SA

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2.2 Standard Operating Procedure for DNA sample:

(We accept samples from Monday-Friday)

- Volume and collection: For automated DNA extraction, HeartGenetics recommends the MagNA Pure extraction system from Roche, and for manual extraction the kit QIAmp DNA Mini kit (Qiagen, CAT#51304). Genomic DNA should be eluted in pure sterile water in a DNase/RNase free microtube. The preferred concentration range is 35 to 250 ng/μL. ***HeartGenetics requires a minimum of 350 ng.***
- Conditions: An optical density (OD) ratio at 260nm/280nm between 1,8 and 2,0 is recommended. DNA sample should run on an agarose gel as a single band, showing no degradation. The quality and quantity of DNA will be assessed at arrival at HeartGenetics.
- Labelling: Label the tube with the patient acronym, date of collection and consultancy referral number.
- Rejection: Degraded or insufficient amount of DNA.
- Shipping: Send at room temperature in a padded envelope. Ship immediately so HeartGenetics can receive it within 48 hours after collection. DNA can be stored for short period at 4°C or at -20°C for periods longer than one month. Avoid freeze and thawing DNA.
- Company: Any standard or express postal service (DHL, FEDEX, ...)

2.3 Standard Operating Procedure for Saliva sample:

(We accept samples from Monday-Friday)

- Volume and collection: 1 ml of Saliva collected in a proper kit.
- Conditions: Recommended KIT - Oragene DNA collection kit from Genotek. Sample remains stable at room temperature.
- Labelling: Label the tube with the patient acronym, date of collection and consultancy referral number.
- Shipping: Send at room temperature in a padded envelope.
- Company: Any standard or express postal service (DHL, FEDEX, ...)

Please note that the Clinical Analysis laboratory must be certified regarding ISO9001 and that the medical Doctor should provide the number of the medical professional License.

Shipping Address

Attn: Helena Vazão
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For further information, please contact the HeartGenetics Laboratory

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