



DRAWING AND PACKING BLOOD SAMPLE(S) FOR GENETIC ANALYSIS

The genetic test is designed to identify mutations in ion channel genes in patients and their family members with inherited cardiac arrhythmias such as Brugada Syndrome, Short QT, Atrial Fibrillation Early Repolarization Syndrome (ERS) and Idiopathic Ventricular Fibrillation (IVF).

DESCRIPTION OF THE TEST

The genetic test provides analysis of the major cardiac ion channel genes. This analysis includes sequence determination and variant detection (i.e. mutations and polymorphisms) in open reading frames (ORF) and intronic sequences containing splice junction sites. Sequencing is performed in both forward and reverse directions using dye-terminator chemistries.

TEST INSTRUCTIONS FOR THE HEALTHCARE PROVIDER

The physician and the patient should complete and submit the informed consent form and clinical information form. If a mutation is not detected in a gene previously identified for the disease under our CLIA-approved protocols, we will need consent from the patient to proceed with a genetic screen of additional candidate genes under our research protocols. The patient's signatures on both forms at this time will avoid any delays. Screening results completed under research protocol will not be available until the candidate gene is approved by NY State Department of Health CLIA.

Keep a signed copy of the Informed Consent Form for your records and give a copy to the patient. Genetic testing cannot begin until we have received the signed informed consent form.

**Masonic Medical Research Laboratory
Genetic Diagnostic Laboratory
2150 Bleecker St
Utica, NY 13501
Telephone: (315) 735-2217 ext 119
Fax: (315) 735- 5648**

DRAWING THE SAMPLES:

Label the tube with the full name (last, first, middle) of the individual you are drawing and their birthday. Please try to fill five lavender top (K₂ EDTA) **tubes** (4 to 6cc per tube) for each adult. For small children, please fill one tube. After drawing, invert the tube several times to prevent clotting. If lavender top tubes are not available, you may use **yellow top** (ACD (acid-citrate-dextrose)). If lavender and yellow top tubes are not available please contact us for other alternatives. **DO NOT USE RED OR GOLD TOP TUBES.**

If **family members** of patient are not present at time of blood draw, blood can be sent using a Filter paper (FTA Card) method. Please see instructions below for collection.

- 1) Label FTA Card with the appropriate name on the line provided. **DO NOT touch the part of the card in the circle.**
- 2) Prick the finger with a lancet and apply the blood to the circle on the FTA Card. Once collection is complete, let card dry open for approximately 24 hours, place the FTA Card paper back in the storage envelope and place the patient's name and date of birth on the outside. The sample can now be put in a envelope and sent by standard mail.

PACKING SAMPLE(S):

Packaging consists of three components: (1) primary receptacle (blood tubes), (2) secondary packaging (materials for protecting primary receptacles, i.e.: absorbent material, and waterproof plastic bag), and (3) an outer packaging (Styrofoam, corrugated cardboard or fiberboard box).

Separate each tube of blood collected from other tubes, or wrap tubes in absorbent material to prevent contact between them. Seal wrapped tubes inside a plastic bag, sealable Styrofoam container, blood tube shipment sleeve or transport tube. Place in shipment approved box, following further instructions below.

Please express or priority mail (Fed Ex or other carrier) the package to the enclosed address.
Sender is responsible for shipping costs.

FOR INTERNATIONAL SHIPMENTS:

1. You need to enclose the **Customs Declaration form** and send via express service.
2. On the Customs Declaration form (Commercial Invoice) the description of the shipment must be listed in English language as **Human Blood/ DNA Sample, contains no animal derivatives.**
3. The following paragraph in **English language** is also required for Customs. This paragraph must be attached to the exterior of the box so it can be read without opening the package.

This package contains human DNA/blood samples being transported in a vial with no media. It contains no animal origin or additive.

SEND THE BLOOD AT ROOM TEMPERATURE; DO NOT SEND IN ICE OR DRY ICE.

Please try to send all blood samples Monday through Wednesday. Try to avoid Friday draws.

All blood samples should be sent to the following address:

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As soon as you send the package please email to genetics@mmrl.edu the information of the delivery company and the tracking number of the package. We will notify you as soon as the samples arrive.