



COLLECTION AND SHIPPING INSTRUCTIONS FOR BLOOD SAMPLES

For Clinical Whole Genome Sequencing

1. Patient Blood Sample Collection Instructions

- A. Select service and complete Test Requisition, **including ordering physician**. Please note this is a physician ordered test. We recommend patients meet with their physician prior to ordering.
- B. Patient blood sample(s) submission types:
- EDTA tube (available at most institutions / phlebotomy services)
 - Tube size may vary between manufacturers. The cap closure is lavender/purple in color, and includes an EDTA (anticoagulant) solution inside.
 - PAXgene tube (included in all-inclusive Sample Collection Kit)
 - Tube size is a 16 x 100 mm tube with a blood draw volume of 8.5 mL. The closure type/color is BD Hemogard/Blue. There is 2 mL of a proprietary EDTA solution inside the tube.
- C. Clearly print the following information on the **blood collection tube and test requisition form**. Failure to include this information may result in a delay of sample processing:
- Patient's date of birth (MM/DD/YY or MM/DD/YYYY)
 - Patient's full name
 - PG Barcode (if available) OR patient's medical record number
 - Collection date
- D. All collection supplies should be used within expiration date and stored per manufacturer's instructions. Please contact the laboratory if any supplies have expired.
- E. **For PAXgene tubes ONLY**
- Prepare patient for blood draw; collect blood into the collection tube using your institution's recommended procedure for standard venipuncture. **It is recommended to collect 8 mL of blood per tube** for adults and 2-4 mL of blood for pediatric patients.



- Samples that require storage prior to shipment are recommended to be stored at 2-8°C, up to a maximum of 28 days.

F. **For EDTA tubes ONLY**

- Prepare patient for blood draw; collect blood into the collection tube using your institution's recommended procedure for standard venipuncture. **It is recommended to collect 8 mL of blood per tube** for adults and 2-4 mL of blood for pediatric patients.
- Follow your institution's recommended procedure for storage while waiting for transportation.

2. Documentation and Sample Shipment

- A. Securely package patient blood sample(s) following the guidelines below, ensuring to double wrap when possible:
 - a. Place blood sample in a small bubble wrap envelope
 - b. Place bubble wrapped-tube or blood sample in a biohazard bag
 - c. Place biohazard bag into a small cardboard box
 - d. Place cardboard box into UPS package
- B. **Completed test requisition (above)** and put in UPS package
- C. Print Return Shipping label
 - a. Print label: http://www.illumina.com/clinical/illumina_clinical_laboratory/how-to-order.html
- D. Verify the shipping label information and affix label to outside of package:

**Illumina Clinical Services Laboratory
Illumina, Inc.
5200 Illumina Way
San Diego, CA 92122**

- E. **Write "EXEMPT HUMAN SPECIMEN" on package in clear bold print.**
 - a. Drop package at UPS shipping facility, or call UPS directly to schedule a pickup at 1-800-742-5877 and say "Send a Package" when prompted.
 - b. Packages should ship at room temperature.
- F. For any questions or concerns, please contact the lab at genomicserivces@illumina.com or 858-736-8080.



INSTRUCTIONS FOR SENDING INDIVIDUAL DNA SAMPLES

For Clinical Whole Genome Sequencing

1. DNA Submission Guidelines

- A. DNA must be at a minimum concentration of **50 ng/ul** and **100ul** volume; Total DNA: **5 µg**.
- B. DNA buffer must be 10mM Tris/1mM EDTA.
- C. DNA must be extracted from human tissue sample, pure, intact, high molecular weight and free of contaminating nucleic acids from other individuals or other species.
- D. DNA must not be PCR amplified (no WGA Samples), or extracted from FFPE samples.
- E. We recommend DNA be quantified using a double stranded DNA specific method such as PicoGreen.

2. Preparing DNA Sample

- A. The following information is required to be documented on DNA sample tube:
 - a. **Patient date of birth (DOB)**, and
 - b. **Patient initials**.
- B. Please securely place DNA tubes in a secondary containment package prior to placing on dry ice.
- C. Please note for DNA samples submission ≥ 5 , please contact your project manager to request a barcoded microtiter plate, and a DNA submission manifest.

3. Documentation and Sample Shipment

- A. Select service and complete Test Requisition including ordering **Physician** signature.
- B. Place test requisition in shipping package.
- C. We recommend shipping DNA samples frozen, on dry ice.
- D. Print a UPS shipment label at http://www.illumina.com/clinical/illumina_clinical_laboratory/how-to-order.html
- E. Ship samples priority overnight to:

Illumina Clinical Services Laboratory
Illumina
5200 Illumina Way
San Diego CA 92122

- F. Please contact your project manager to notify them of the shipment, and send tracking information. We will promptly notify you when the sample arrives.