

## Sample Collection Procedure

- Sample collection materials and refrigerated shippers may be ordered through the Lucent Diagnostics portal or by contacting Customer Service.
- For each sample, a test requisition form must be completed.
- All required information must be provided for a sample to be accepted for testing.

1

### Label Tubes

- On the provided labels write the **collection date and time**, and a **unique patient identifier** that matches the test requisition form. The Unique ID (provided by the facility) should be a number unique to the patient, such as their MRN.
- Apply one of the completed labels to the cryotube with the barcode parallel to the length of the cryotube.
- Apply the second completed label to the requisition form in the gray box marked “Affix barcode here” if using an unbarcoded paper requisition.

2

### Venous Blood Draw

- Use provided K2EDTA Plasma Separator Tube or facility provided K2EDTA tube.
- **Check the expiration on K2EDTA tube. (Do not use expired K2EDTA tubes).**
- Following manufacturer’s instructions, perform a venous blood draw to collect whole blood into the Plasma separator tube.

3

### Invert

- Immediately following collection, gently invert the K2EDTA Plasma separator tube **8-10 times** to mix with anticoagulant.

4

### Centrifuge

- Centrifuge the tube at **2000g for 10 minutes** to separate plasma from red blood cells (*refrigerated centrifuge between 2°C-8°C is preferred*).
- Ensure plasma is separated from red blood cells.

5

### Transfer Plasma

- Pipet ~1 ml of plasma to the cryotube.
- Discard the plasma separator tube.

6

### Package the Sample

- Seal the cryotube with plasma in the biohazard bag provided and insert the completed sample requisition form, printed from the Lucent Diagnostics portal, in the outer pocket.
- Package the sample for shipment (refer to page 3).
- **If not shipping immediately (refer page 2).**

To ensure sample integrity, samples must be maintained at 2-8°C and delivered to Lucent Diagnostics within 7 days of collection.

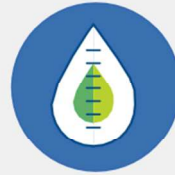
## Refrigerated Sample Storage Guidelines & Sample Acceptance Criteria

**Sample collection sites must follow the instructions below exactly as prescribed. Any samples handled or stored outside of the prescribed conditions are not valid for testing.** Samples should be collected and processed immediately following the guidelines below.



### 2–8°C

Until ready to ship  
**Storage Temperature**



### 0.5 ml

**Minimum volume  
of plasma**



### NanoCool

(2–8°C)  
**Shipping Condition**



### Mon-Thurs

Needs to arrive to Quanterix  
within 7 days of collection.  
**Shipping days**

The following conditions must be met for samples to be accepted for testing:

- 1. The sample arrives at Lucent Diagnostics within 7 days of collection.**
- The temperature indicator must be activated and show that the sample was maintained at the appropriate temperature during shipment.
- The cryotube is free of spillage or leaks.
- The sample(s) within the shipment matches the completed test requisition form(s) provided by the ordering provider.
- Each sample has two unique identifiers (barcode + unique ID) that match the test requisition form(s) provided by the ordering provider.
- All required fields are completed on the test requisition form.

If any of the above criteria are not met, the sample cannot be processed, and the collecting site will be notified. If the sample integrity is impacted, the sample will be discarded.

Our Customer Service team is available to answer sample collection, storage, and shipping-related questions. Please give us a call at **(978) 488.1869** or send an email to **[customerservice@lucentdiagnostics.com](mailto:customerservice@lucentdiagnostics.com)**.

## Sample Shipping Procedure

Refrigerated Shippers ordered through the Lucent Diagnostics portal include:

- A preprinted FedEx overnight shipping label.
- A temperature indicator card.

The refrigerated shipper holds up to 10 samples and **does not require refrigeration** of the package or the cooler prior to use. **The refrigerated shipper is not a storage solution and should only be activated immediately before shipment.**

## Packaging Samples for Shipment



1. Open box, remove cooling engine, and place silver foil side down on a flat surface. The white activator button should be pointing upward.



2. In one motion, push straight down on the activation button with a thumb (not a sharp object). Only a moderate amount of force is necessary to depress the actuator.

3. The NanoCool logo will turn blue, indicating that cooling has begun. Confirm by touching the surface of the cooling engine near the activation button.

*Storage of the NanoCool in a cold environment (below 15°C/59°F) is known to cause the NanoCool logo to turn blue before activation. Placing the NanoCool in a room temperature environment (21°C/70°F) for 15 minutes will reverse the color and make the label clear again.*



4. Activate the temperature indicator card by pulling off the top tab to reveal the black bar. Place the activated temperature indicator card into the NanoCool payload compartment.

*The top tab of the temperature indicator card must be completely removed in order to capture potential temperature excursions during shipment.*



5. Load the biohazard bag (containing the plasma sample and the sample requisition form) into the payload compartment.



6. Replace the cooling engine in its original position in the package, insert the flaps to close the box, and tape the lid shut where indicated.

7. Schedule a same day FedEx pick up or drop the package off at a nearby FedEx authorized shipping retailer.

Samples may be shipped any day of the week between **Monday-Thursday**.  
Samples should **not be shipped** the day before a holiday.