



**LOFTUS
LAB**

METABOLIC INVESTIGATION OF DIABETES MELLITUS AND HEPATOCUTANEOUS SYNDROME

After obtaining client consent (signature on forms)

Please collect the following blood samples:

<i>Sample Type</i>	<i>Tube Type</i>	<i>Volume</i>	<i>Purpose</i>
Fasting Plasma	P800*	≥ 4 mL	Gut Hormone Analysis
Fasting Plasma**	Sodium Heparin	4 mL	Complete Amino Acid Analysis
Fasting Whole Blood***	EDTA	3 mL	Genome Sequencing, Metabolomic Analysis (DBS Card)
Post-Prandial Plasma	P800*	≥ 4 mL	Gut Hormone Analysis

*Store tubes in the refrigerator (~2-8°C) until use.

**Sample not required if patient had UC Davis Complete Amino Acid Analysis performed within 3 months.

***Sample not required if patient DNA is already banked with the Cornell Biobank.

Process the blood samples as follows:

- **FASTING SAMPLES** (fasted for 8-12 hours); Prior to feeding, fill one of the P800, the heparin, and the EDTA tubes. Spin the P800 and heparin ASAP and separate plasma into 3 to 4 microtubes ASAP. Label and refrigerate all tubes immediately.
 - Label the Cytiva Whatman™ 903 Protein Saver Card/Dried Blood Spot (DBS) with permanent marker. Use the provided sterile disposable pipette or syringe to apply 50 to 80 µl of EDTA blood to each spot on the DBS card: slowly expel the blood to form a drop and touch the drop to the card; do not touch the card with the pipette/syringe. Do not overfill the circle, as this will interfere with the stabilizers in the card. Do not touch the spot once blood is applied. Allow the blood spots to air dry a minimum of 4h without the card flap covering the spots in a clean, dry place away from direct sunlight. Do not heat, stack or allow DBS to touch other surfaces during the drying process.
 - Keep the remaining EDTA blood sample in collection tube for genome sequencing. Refrigerate immediately.
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- **POST-PRANDIAL SAMPLE** 15 minutes after feeding, fill the other P800 tube. Spin & separate plasma into 3 to 4 microtubes ASAP. Refrigerate immediately.
 - Once the DBS card is fully dried, tuck in the flap of the card as indicated, taking care not to touch the blood spots, and insert the card in the foil bag. Seal the bag and label it with the patient's name, client's name, and date of collection. Refrigerate until shipping.
 - Ship all samples in received packaging with frozen gel ice pack using the provided FedEx return label.