

Human BioMolecular Research Institute

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General Protocol

General Comments: On the day before the sample is to be taken, a normal diet that is generally eaten should be consumed. If possible, samples from women should not be taken from 2 days before to 2 days after menstruation. Smokers should indicate on the Data Collection Form that they have smoked ____ hours before the sample was taken.

TMA and TMA N-Oxide Analysis: First void morning urine should be collected in midstream in a sterile clean collection vessel provided. Approximately 30 mL should be placed in the conical 45mL plastic Falcon tube marked TMA. The tube should be labeled with the patient's last name, first name and covered in clear tape. The sample should be placed on ice to cool and then 2 mL of 6N HCl (hydrochloric acid) should be added carefully to the urine to acidify the contents. The plastic screw cap top of the 45mL Falcon tube marked TMA should be placed on and screwed tightly. The contents should be inverted to thoroughly mix the acidified urine. The mixture should then be placed on dry ice* or rapidly frozen in preparation for shipment to the analytical lab. **If hydrochloric acid is not available, freeze the urine sample and send by FedEx with dry ice in an insulated container.**

Genotyping: Approximately 10 mL of blood should be taken and placed in a purple or green topped tube. It should be mixed and cooled on ice but not frozen in preparation for shipment to the analytical lab. Do not add acid to the blood!! The sample should be labeled with the patient's last name, first name and covered in clear tape.

Shipment: Shipping should be done Overnight Courier (Fed Express) to the above address, attention, John Cashman, Ph.D. The urine sample should have sufficient dry ice* so the urine samples will remain frozen for its journey to HBRI. Blood should be sent on regular ice (or with ice packs if possible) via Overnight Courier. Please ship your sample in an insulated container.

*Dry Ice can be obtained at your clinical lab, an ice cream store (i.e., Baskin Robbins) or the fish counter at your local super market.