



# Blood and Plasma Collection and Processing Instructions

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## Information Required for Requisition and Sample Labeling:

Be sure the samples are labeled properly with the patient(s) name(s) and your facility ID number. Please include: tests required, sample date, date of birth, current medications and relevant medical history. Be sure to complete your billing information on our site at [www.mnglabs.com/forms](http://www.mnglabs.com/forms). **Failure to provide this information may result in delayed processing of test.**

## Blood

Order kits online at [www.mnglabs.com/kits](http://www.mnglabs.com/kits), which include appropriate vacutainer collection tube, collection instructions, test requisitions, and return shipping. **All blood should be stored and shipped at room temperature.**

### Genetic Testing (MOL and NGS test codes):

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Periphery whole blood is collected into a purple top EDTA vacutainer. Please send a minimum of 3 mL of blood in order to assure that enough DNA is available to complete requested testing.

### Coenzyme Q10 and Thymidine Phosphorylase Enzymology (MET04 and ENZ06):

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Periphery whole blood is collected into a yellow top ACD vacutainer. A minimum of 4 mL is required for this testing.

## Plasma

### Plasma Amino Acid Analysis (MET02), Thymidine and Deoxyuridine (MET12), Creatine and Guanidinoacetate (MET23), and Aromatic L-amino Acid Decarboxylase Enzymology (ENZ01):

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1. Collect periphery whole blood into a green top Heparin vacutainer.
2. Immediately separate plasma by centrifugation.
3. Transfer plasma to a new, sterile, appropriately labeled tube. Freeze at -80°C and ship on dry ice.
  - Plasma must be separated immediately after collection for the testing to be viable.
  - For MET12 and ENZ01, it is acceptable to use a purple top EDTA vacutainer for collection of whole blood. Plasma is then separated as above.

### Pyruvate (MET10):

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1. Collect periphery whole blood into a green top Heparin vacutainer.
2. Immediately place tube on ice.
3. Add 1mL of blood to 2 mL of COLD 6-8% perchloric acid. Mix well by vortex or inversion.
4. Place back onto ice for 5 minutes.
5. Centrifuge at 3000 rpm for 10 minutes.
6. Transfer supernatant to a new, clean, appropriately labeled tube. Freeze at -80°C and ship on dry ice.

### Lactate (MET08) and Glucose (MET24):

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1. Collect periphery whole blood into a grey top Sodium Fluoride vacutainer on ice.
2. Immediately separate plasma by centrifugation.
3. Transfer plasma to a new, sterile, appropriately labeled tube. Freeze at -80°C and ship on dry ice.
  - Plasma must be separated immediately after collection for the testing to be viable.