

1. Checklist (Prior to Shipping)

Includes Blood & Urine Specimens

1. Tubes

- Patient's first and last name, date of birth, gender, and date of collection are written on all tubes and vials
- All the tubes and vials are capped tightly

2. Frozen

- Clear cap plastic vial (urine)
- 3 red top amber transfer tubes
- Lavender top clear transfer tube
- 3 ice packets

3. Room Temperature

- Green top Na-heparin tube

4. Test Requisition Form with Payment

- Test Requisition Form is complete
- Personal Health Assessment Form is complete
- Payment is included



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IONSM Pediatric Profile - Clinician

Blood Specimen Collection Instructions

This specimen collection kit can be used for the following test(s):

0090 Pediatric ION Profile - Blood/Urine

0490 Pediatric ION Profile w/Amino Acids 40 - Blood/Urine

***0088 Neopterin/Biopterin Profile** - Urine

***0031 Vitamin K Assay** - Serum

Please Note: The ION Pediatric Profile requires the patient to collect urine at home. This should be done prior to the blood collection. All specimens, urine and blood, must be shipped together. Patient must be fasting for blood draw. (Urine collection instructions are explained in the ION Pediatric Profile-Patient Specimen Collection Instructions.)

IMPORTANT:

All patient specimens require two unique identifiers *patient's name and date of birth*, as well as *date of collection*. **Patient's first and last name, date of birth, gender, and date of collection** must be recorded on the **Test Requisition Form** as well as on all tube(s) and/or vial(s), using a permanent marker, or the test may not be processed.

Specimen

Serum, 6 ml (3 tubes, 2 ml each), frozen; **Plasma**, 2.5 - 3 ml, frozen;

Whole Blood, room temperature; **Overnight Urine**, 12 ml, frozen

**Additional 2 ml of serum is required if ordering #0030 with ION Profile

Collection Materials

- 4 red/gray top serum separator tubes
- Green top Na-heparin tube
- Lavender top EDTA tube
- 3 red top amber transfer tubes
- Lavender top clear transfer tube
- 2 disposable pipettes

Shipping Materials

- Plastic shell tube tray
- Absorbent pad
- 3 ice packets
- Test Requisition Form
- Personal Health Assessment Form
- Biohazard bag with side pocket
- Specimen collection kit box

Please read all instructions carefully before you begin.

Patient Preparation

- It is best to **ship the specimen within 48 hours of collection**. Please refer to the enclosed shipping instructions **before** you collect to determine the days that the specimen can be shipped.
- Please check to make sure the patient has fasted prior to drawing blood.
- **Note:** The total volume of blood necessary to be drawn is approximately 22 ml ******(26 ml if ordering #0030). Children weighing less than 40 pounds may require multiple blood draws. Please discuss this with the guardian before they schedule the blood draw. Information on multiple blood draws for pediatric patients is available on our website at www.GenovaDiagnostics.com or call client services at 800-221-4640.

Blood Collection

1. **Write** patient's **first and last name, date of birth, gender,** and **date of collection** on the Test Requisition Form (located in the pouch on top of the Specimen Collection Kit Box), as well as on all tube(s) and/or vial(s), using a permanent marker.
 - **IMPORTANT:** To ensure accurate test results, you must provide the requested information.
2. **Freeze** the ice packets.
3. **Red/gray top serum separator tubes and red top amber transfer tubes**
 - **Draw** 3 red/gray top serum separator tubes ******(**Draw** 4 if also ordering #0030 UMFA Assay).
 - **Place** upright in a rack at room temperature for 20 to 30 minutes to clot blood.
 - **Centrifuge** the red/gray top serum separator tubes for 15 minutes. The serum must be free of hemolysis or red blood cells.
 - **Pipette** 2 ml serum, using a fresh disposable pipette, from each of the red/gray top serum separator tubes into the 3 red top **amber** transfer tubes. ******If #0030 was ordered, add **1 ml additional serum** into 2 of the 3 red top amber transfer tubes. **Cap** each tube tightly.
 - **Freeze** the red top amber transfer tubes.
4. **Green top Na-heparin tube**
 - **Draw** the green top Na-heparin tube completely.
 - **Invert** the tube gently 15 times immediately after the blood draw.
 - **Leave** the tube at room temperature. Do not centrifuge or transfer.

5. Lavender top EDTA tube and lavender top clear transfer tube

- **Draw** the lavender top EDTA tube completely.
- **Invert** the lavender top EDTA tube 10 times to mix the EDTA with the blood.
- **Centrifuge** immediately for 15 minutes. The plasma must be free of hemolysis and red blood cells.
- **Remove** the lavender top clear transfer tube from centrifuge; **DO NOT INVERT TUBE**.
- **Pipette** plasma, using a fresh disposable pipette, 2.5 - 3 ml to lavender top clear transfer tube.
- **Freeze** lavender top clear transfer tube.

Specimen Preparation

1. **Place** all of the frozen transfer tubes, and frozen urine collection into the slots or the ends of the plastic shell tube tray. (An exact fit is not necessary.)
2. **Place** the absorbent pad over the tubes.
3. **Place** the frozen ice packets at each end of the tubes in the tray and one in the middle.
4. **Snap** the tray closed (do not place green top Na-heparin tube inside the tray).
5. **Place** the tray, along with the green top Na-heparin tube, into the biohazard bag.
6. **Staple** payment to the bottom right-hand corner of the completed Test Requisition Form and **Complete** the Personal Health Assessment Form; **Fold and Place** them in the side pocket of the biohazard bag.
7. **Seal** the biohazard bag; **Place** it into the specimen collection kit box, and close the box.