Please collect all tubes in one session. Label each tube with the patient's date of birth. Blood processing must be completed within **45 minutes** after blood collection.

Before venipuncture, thoroughly wash the skin area with isopropyl alcohol, using two successive swabs of clean, sterile cotton. Do not use iodine or mercury-based disinfectants/antiseptics. Extra cleaning of the skin is important for accurate trace element analysis. Use only stainless steel needles, with no aluminum or other metal crimp ring.

---

**BLOOD PROCESSING WORKFLOW**

**USE THIS BLOOD PROCESSING WORKFLOW WITH CURRENT KIT**

**BLOOD PROCESSING**

- **Na Heparin Blue-Top Tube**: Gently invert the tube 10-15 times. **Centrifuge** 15 min. @ 3000 RPM (or more in standard clinical centrifuge). **Transfer** plasma to amber tube. **Remove** the buffy coat layer on top of the red blood cells. **Refrigerate** no more than 4 days prior to shipping. **Return to Lab** - Do Not Discard.

- **Red SST Tiger-Top Tube**: **Clot** for 15 min. while standing in a rack. **Centrifuge** 15 min. @ 3000 RPM. **Transfer** serum to amber transfer tube. **Discard** after serum is transferred.

- **Large EDTA Lavender Top Tube**: Gently invert 5x. Do Not Shake. **Refrigerate** no more than 4 days prior to shipping. **Return to Lab**.

- **Small EDTA Lavender Top Tube**: Gently invert 5x. Do Not Shake. **Refrigerate** no more than 4 days prior to shipping. **Return to Lab**.

**“RETURN TO LAB” CHECK LIST**

- **3 VIALS - Physician Blood Collection**
  - 1 Amber Transfer Tube - Plasma - (frozen)
  - 1 Blue-top Na Heparin Tube - Packaged RBCs - (refrigerated)
  - 1 Red-top Transfer Tube - Serum (frozen) - if ordering Vitamin D
  - 1 Large Lavender-top Tube - (refrigerated)
  - 1 Small Lavender-top Tube - (refrigerated)

- **3 VIALS - Patient Urine Collection**
  - 1 Blue-top Amber Tube - (FMV - frozen)
  - 1 Green-top Urine Tube - (FMV - frozen)
  - 1 Green-top Preservative Tube - (FMV - frozen)

The 3 Urine Vials must be completely frozen prior to shipping. Please ensure samples were not thawed in transit to physician’s office.

---

**USE THIS BLOOD PROCESSING WORKFLOW WITH NEW KIT**

**BLOOD PROCESSING**

- **Na EDTA Blue-Top Tube**: Gently invert the tube 10-15 times. **Refrigerate** no more than 4 days prior to shipping. **Return to Lab**.

- **Red SST Tiger-Top Tube**: **Clot** for 15 min. while standing in a rack. **Centrifuge** 15 min. at 3000 RPM. **Transfer** serum to amber transfer tube. **Discard** after serum is transferred.

- **Large EDTA Lavender Top Tube**: Gently invert 5x. Do Not Shake. **Refrigerate** no more than 4 days prior to shipping. **Return to Lab**.

- **Small EDTA Lavender Top Tube**: Gently invert 5x. Do Not Shake. **Refrigerate** no more than 4 days prior to shipping. **Return to Lab**.

**“RETURN TO LAB” CHECK LIST**

- **3 VIALS - Physician Blood Collection**
  - 1 Amber Transfer Tube - Plasma - (frozen)
  - 1 Blue-top EDTA Tube - (refrigerated)
  - 1 Small Lavender-top Tube - (refrigerated)

- **3 VIALS - Patient Urine Collection**
  - 1 Blue-top Amber Tube - (FMV - frozen)
  - 1 Green-top Urine Tube - (FMV - frozen)
  - 1 Green-top Preservative Tube - (FMV - frozen)

The 3 Urine Vials must be completely frozen prior to shipping. Please ensure samples were not thawed in transit to physician’s office.

---

For more information, please contact Genova Diagnostics at 800.522.4762 or visit www.gdx.net.

**GDX-5-161**
Please collect all tubes in one session. Label each tube with the patient’s date of birth. Blood processing must be completed within 45 minutes after blood collection.

Before venipuncture, thoroughly wash the skin area with isopropyl alcohol, using two successive swabs of clean, sterile cotton. Do not use iodine or mercury-based disinfectants/antiseptics. Extra cleaning of the skin is important for accurate trace element analysis. Use only stainless steel needles, with no aluminum or other metal crimp ring.

**USE THIS BLOOD PROCESSING WORKFLOW WITH CURRENT KIT**

**BLOOD PROCESSING**

**Na HEPARIN BLUE-TOP TUBE:**
- Gently invert the tube 10-15 times
- CENTRIFUGE 15 min. @ 3000 RPM
- TRANSFER plasma to amber tube
- REMOVE the buffy coat layer on top of the red blood cells
- REFRIGERATE no more than 4 days prior to shipping
- RETURN TO LAB - DO NOT DISCARD

**Blue-Top Preservative Tube:**
- IMMEDIATELY shake VERY HARD at last 10-20 seconds.
- CENTRIFUGE 5 min. @ 2500 RPM
- TRANSFER clear supernatant into the yellow-top transfer tube
- DISCARD AFTER CLEAR SUPERNATANT IS TRANSFERRED

**Red SST Tiger-Top Tube:**
- Clot for 15 min. while standing in a rack
- CENTRIFUGE 15 min. @ 3000 RPM
- TRANSFER serum to amber transfer tube
- DISCARD

**Yellow Top Transfer Tube:**
- FREEZE
- Must be completely frozen prior to shipping
- RETURN TO LAB

**Red-Top Transfer Tube:**
- FREEZE
- Must be completely frozen prior to shipping
- RETURN TO LAB

**Large EDTA Lavender Top Tube:**
- Gently invert 5x. DO NOT SHAKE
- REFRIGERATE no more than 4 days prior to shipping
- RETURN TO LAB

**Small EDTA Lavender Top Tube:**
- Gently invert 5x. DO NOT SHAKE
- REFRIGERATE no more than 4 days prior to shipping
- RETURN TO LAB

**“RETURN TO LAB” CHECKLIST**

- 6 VIALS - Physician Blood Collection
  1. Yellow-top Tube - (frozen)
  1. Amber Transfer Tube - Plasma - (frozen)
  1. Blue-top Na Heparin Tube - Packed RBCs - (refrigerated)
  1. Red-top Transfer Tube - Serum - (frozen) - f ordering Vitamin D
  1. Large Lavender-top Tube - (refrigerated)
  1. Small Lavender-top Tube - (refrigerated)

- 2 VIALS - Patient Urine Collection
  1. Blue-top Amber Tube - (FMV - frozen)
  1. Green-top Urine Tube - (FMV - frozen)

The 2 Urine Vials must be completely frozen prior to shipping. Please ensure samples were not thawed in transit to physician’s office.

---

**USE THIS BLOOD PROCESSING WORKFLOW WITH NEW KIT**

**BLOOD PROCESSING**

**Na EDTA BLUE-TOP TUBE**
- Gently invert the tube 10-15 times
- REFRIGERATE no more than 4 days prior to shipping
- RETURN TO LAB

**Blue Top Preservative Tube:**
- IMMEDIATELY shake very hard at least 10-20 sec.
- CENTRIFUGE for 5 min. at 2500 RPM
- TRANSFER the clear supernatant into the yellow-top transfer tube
- DISCARD

**Red SST Tiger-Top Tube:**
- Clot for 15 min. while standing in a rack
- CENTRIFUGE 15 min. at 3000 RPM
- TRANSFER serum to amber transfer tube
- DISCARD

**Yellow Top Transfer Tube:**
- FREEZE
- RETURN TO LAB

**Red-Top Transfer Tube:**
- FREEZE
- RETURN TO LAB

**Large EDTA Lavender Top Tube:**
- Gently invert 5x. Do Not Shake
- REFRIGERATE no more than 4 days prior to shipping
- RETURN TO LAB

**Small EDTA Lavender Top Tube:**
- Gently invert 5x. Do Not Shake
- REFRIGERATE no more than 4 days prior to shipping
- RETURN TO LAB

**“RETURN TO LAB” CHECKLIST**

- 4 VIALS - Physician Blood Collection
  1. Yellow-top Tube (frozen)
  1. Amber Transfer Tube - Plasma - (frozen)
  1. Blue-top EDTA Tube - (refrigerated)
  1. Small Lavender-top Tube - (refrigerated)

- 2 VIALS - Patient Urine Collection
  1. Blue-top Amber Tube - (FMV - frozen)
  1. Green-top Urine Tube - (FMV - frozen)

The 2 Urine Vials must be completely frozen prior to shipping. Please ensure samples were not thawed in transit to physician’s office.