

BLOOD COLLECTION PROCESSING WORKFLOW

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
(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

AMBER TRANSFER TUBE
FREEZE
Must be completely frozen prior to shipping
RETURN TO LAB



Draw Only if ordering Vitamin D.
RED SST TIGER-TOP TUBE:
CLOT for 15 min. while standing in a rack
CENTRIFUGE 15 min. @ 3000 RPM
TRANSFER serum to red-top tube
DISCARD AFTER SERUM IS TRANSFERRED

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" CHECK LIST

- 5 VIALS - Physician Blood Collection**
 - 1 Amber Transfer Tube - Plasma - (frozen)
 - 1 Blue-top Na Heparin Tube - Packed 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

AMBER TRANSFER TUBE
Freeze
RETURN TO LAB

SMALL EDTA LAVENDER TOP TUBE
Gently invert 5 times
Do Not Shake
Refrigerate
RETURN TO LAB



"RETURN TO LAB" CHECK LIST

- 3 VIALS - Physician Blood Collection**
 - 1 Amber Transfer Tube - (serum - 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.

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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

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 blue-top preservative tube
DISCARD AFTER PLASMA IS TRANSFERRED

Draw Only if ordering Vitamin D.
RED SST TIGER-TOP TUBE:
CLOT for 15 min. while standing in a rack
CENTRIFUGE 15 min. @ 3000 RPM
TRANSFER serum to red-top 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

AMBER TRANSFER TUBE
FREEZE
Must be completely frozen prior to shipping
RETURN TO LAB

BLUE-TOP PRESERVATIVE TUBE:
IMMEDIATELY shake VERY HARD at least 10-20 seconds.
CENTRIFUGE 5 min. @ 2500 RPM.
TRANSFER clear supernatant into the yellow-top transfer tube
DISCARD AFTER CLEAR SUPERNATANT IS TRANSFERRED

RED-TOP TRANSFER TUBE:
FREEZE
Must be completely frozen prior to shipping
RETURN TO LAB

"RETURN TO LAB" CHECK LIST

- 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) - If 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

Na HEPARIN BLUE-TOP TUBE
Gently invert the tube 10-15 times
Centrifuge 15 min. at 3000 RPM
Transfer plasma to blue-top preservative 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

SMALL EDTA LAVENDER TOP TUBE
Gently invert 5 times
Do Not Shake
Refrigerate
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

AMBER TRANSFER TUBE
Freeze
RETURN TO LAB



"RETURN TO LAB" CHECK LIST

- 4 VIALS - Physician Blood Collection**
- 1 Yellow-top Tube (frozen)
 - 1 Amber Transfer Tube - (Serum - 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.