

BD

Greiner

Specimen Collection and Transport Systems

Remember: Always check the expiration date on the tubes and transport kits prior to collection.

Expired tubes will NOT be processed by the laboratory, and the sample must be redrawn to ensure accurate results. The vacuum blood collection tube does not fill completely to the stopper, but only to the required level. Proper dilution of the blood and additive in the tube is critical. Be sure that each tube is allowed to fill until the blood flow stops. If unsure, wait until an additional 1-2 seconds before removing the tube from the holder and withdrawing the needle from the arm, Improperly filled tubes will be rejected by the laboratory, and the sample must be re-drawn to ensure accurate results. Order in which the tubes should be collected to minimize cross contamination. **Invert Tube** Order of Draw Effects of under filling. Visit www.testmenu.com/UHElyriaMedicalCenter for specific test requirements. Clear Discard Tube- *When using a winged blood collection set (butterfly) for venipuncture and a N/A No-Additive coagulation (citrate) tube is the first specimen to be drawn, a discard tube should be drawn first. This discard tube must be used to fill the tubing's "dead space" with blood. This important step will ensure maintenance of the proper blood-to-additive ratio of the blood specimen. This discard tube should be a non-additive or coagulation tube. Bact/Alert bottles used for blood cultures. Blood in Bact/Alert bottles using aseptic Bact/ Invert tube gently 3-5 An optimal volume of blood per culture is **Alert Bottles** techniques. Collection recommendations: critical because the concentration of times. Adult: 8-10 mL per bottle, Collect two from separately prepared sites. organisms in most cases of bacteremia is Do not collect blood cultures and trace element from the same venipuncture. low, especially if the patient is on Label code: BLDVIAL Note: Both vials must be labeled, Full name, date of birth, antimicrobial therapy. collection date, time, site of collection. Bottles are labeled vertically. Do not cover up Aerobic Anaerobic manufacturer barcode. Cultures are to be transported in a separate biohazard bag. Same BLDC sets/same patient/same time can be bagged together (Na/citrate 3.2) *When using a winged blood collection set (butterfly) for venipuncture and a Invert tube gently 8-10 Coagulation results are erroneously **Light Blue** coagulation (citrate) tube is the first specimen to be drawn, a discard tube should be drawn prolonged. (a completely filled tube is times first. Label codes: BLUE, BLUETR required) (SST) Gel barrier tube. Allow to clot for 30 minutes, before centrifuging. Gold Invert tube Poor barrier formation: Label codes: SST, SSTTR 4-5 Times Insufficient sample Clot Activator. Allow to clot for 30 minutes, before centrifuging. N/A Red Insufficient sample Labe codes: RED Lithium Heparin. The green top heparin tubes contain either the lithium or sodium salt of the Invert tube gently 8-10 Using plasma instead of serum speeds the Green heparin anticoagulant. Lithium heparin should not be used for lithium determinations. All of testing process by eliminating fibrin clots times the heparin is spray dried on the wall of the tube. Label codes: GREEN, GRNTR and yielding greater specimen volume. Use only sodium heparin green top tubes for all Cytogenetic testing. Example: Chromosome Analysis. PST Lithium Heparin plasma separator tube. PST tubes contain spray coated lithium heparin Insufficient mixing may lead to micro clot Mint Green Invert tube gently 8-10 and a gel for plasma separation. They are used for plasma determinations for chemistry. and fibrin strand formation. times Label codes: GRRENGEL, GGELTR (EDTA) functions by binding calcium in the blood and keeping the blood from clotting. Invert tube gently 8 -10 Erroneously low blood cell counts & Lavender Label codes: LAV, LAVTR hematocrits; morphologic changes to RBC's times. staining alterations. Positive screening results require additional (k2EDTA) Plus tubes are intended for routine immunohematology testing, including red cell Invert tube gently 8-10 Pink grouping, Rh typing and antibody screening. **Blood Bank samples require the collector testing (work-up). Insufficient sample times who confirmed positive patient identification sign the ordering requisition and initial the would require re-collection. collection tube. Label code: BB_PINK Potassium Oxalate/sodium fluoride. Sodium fluoride acts as the glycolytic inhibitor and Invert tube gently 8-10 **GRAY** prevents the cells in the blood from utilizing the glucose. The glucose is stable for 24 hours. times Label codes: GRAY, GRAYTR



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	<u>ACD</u>	Acid Citrate Dextrose solutions are available in two formulations. (Supply-provided by lab) Used for blood bank studies, HLA Phenotyping The formulations are as follows:			Invert tube gently 3-5 times	Choose the correct solution for test required, both tubes look the same.
a	Vacutainer					
BODE TO GREEK CONTROLLED CONTROLLED BODY FROMER AND	Glass tube	ACD Solution A ACD Solution B				
		Trisodium citrate	22.0 g/L	13.2 g/L		
		Citric Acid	8.0 g/L	4.8 g/L		
		Dextrose	24.5 g/L	14.7 g/L		
14.77 14.77 14.77	T-SPOT	TB (Mycobacterium Tuberculosis Collect (1) 9 mL Lithium Heparin Collect Monday-Friday only. Do Label code: GREEN (Supply-pr	n tube. Not collect the day of or before a	Invert tube gently 8-10 times		
	NMR LipoProfile	NMR includes a LIPID Profile (C Z serum clost activator (Greiner) collection or keep refrigerated and Do no aliquot sample into a pour Label code: Special tube Label	CHOL, TRIG, HDL, LDL) centrifuge to separate serum from d centrifuge within 4 hours. off tube. Keep in original collect	Invert tube gently 3-5 times		
Trace Element of a consideration	. Rubber stoppers is	Collection: A commen miscon collection tubes other than the Roman can be introduced as the needle	yal blue are known to contain se	veral elements that can conta	minate a specimen and interf	omprising the tube and the tube top are more fere with testing. In a tube other than the royal a trace element-free tube.
	Royal Blue	Serum Collection: Clot Activator			Invert tube gently 8-10	Remove cells promptly after centrifugation
	(Dark/Navy	minutes before centrifuging. Colle		111	times	and store in a metal free vial.
	Blue	needles. Use non-powder gloves when handling and collecting. Wash the collection site with soap and water, followed by an alcohol swab. Some studies indicate that using alcohol alone is not as effective at preventing trace elements contamination. When multiple blood specimens are to be collected from one patient, the trace elements sample should be collected first. Once the phlebotomy needle punctures another rubber stopper, it is contaminated and should not be used for trace elements specimen collection. Immediately pour off the serum into a trace element free transport tube within 2 hours of collection. Do not collect blood cultures and trace element from the same venipuncture. Label code: DB NOADD				Transport Tube, Metal Free For heavy-metal serum, plasma, and urine testing
	Royal Blue (Dark/Navy Blue	Na2EDTA-Trace element analysi Whole blood collection. Collect using a stainless steel need Use non-powder gloves when han Wash the collection site with soar Some studies indicate that using a contamination. When multiple blood trace elements sample should be contamined another rubber stopper, it is contamined to specimen collection. Do not collect blood cultures and Label code: DB EDTA	dles. adling and collecting. and water, followed by an alcolutional alone is not as effective a good specimens are to be collected collected first. Once the phleboto minated and should not be used	t preventing trace elements I from one patient, the omy needle punctures for trace elements	Invert tube gently 8-10 times	Choose the correct Royal (Dark/Navy) tube they look similar.



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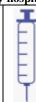
Expired tubes will NOT be processed by the laboratory, and the sample must be redrawn to ensure accurate results.

Additional specialty collections and/or processing must be collected at the patient service center located within the community hospitals.

Acid Fast Bacillus
(AFB) Culture, Blood

Bactec: Media
Myco /F Lytic
LIS Label: BLD
(Supply-provided by lab)

Fungal Culture, Blood (FUNBL)
Microbial isolator
LIS Label: BLD
(Supply-provided by lab)



Syringe collections are **not** performed at the stand alone out patient service centers.

Example: Blood Gas, Arterial and Coox panel.

Report to outpatient registration area within a community

hospital.

Why invert the tubes?

- Most tubes contain an *ADDITIVE* or *CLOT ACTIVATOR* that needs to be mixed with the blood sample.
- Tubes with anticoagulants such as EDTA needs to be mixed to ensure the specimens does not clot.

How?

- Holding tube upright, gently invert 180 and back.
- Repeat movement as prescribed for each tube. 5-10 times

When?

Immediately after drawing.

When using a sticker to label the sample always place your labels straight and not wrinkled.



Sample labeling:

All samples must be labeled at the bedside (in front of the patient) with the patient's full legal name, date of birth, collection date, time and site/source if culture.

Label the sample container not the lid or the transport bag. Secure all containers by checking the cap or lids to insure sample integrity or avoiding any leakage.

Sample Orders:

Patient identifiers on the specimen container and the laboratory order form must match in order for the specimen to be processed.

When submitting specimens for testing provide a copy of the patient's demographics, insurance card and a copy of the patient's photo ID.

Sample Collection Preparation:

Prior to each collection, review the appropriate test description, including the specimen type indicated, the volume, the procedure, the collection materials, patient preparation, and storage and handling instructions. https://www.testmenu.com/UHElyriaMedicalCenter

Samples and supplies: Remember do not store your supplies or place samples outside (lockbox) when the weather is extreme.

Cold or hot weather can affect the vacuum within your collection tubes, causing them to malfunction.

Questions: concerning collection, transport or storage, contact the Laboratory at 440-329-7531.

01/09/2023