

# Blood Culture Collection using BD Bactec™ Quick Guide

## Equipment Needed



**Aerobic Culture Bottle**  
(Blue cap/Grey label)



**Anaerobic Culture Bottle**  
(Purple cap/Purple label)



**Pediatric Aerobic Culture Bottle**  
For use on pediatric patients only. Collect only this bottle for pediatric patients. (Pink cap/pink label)



**Acid Fast Culture Bottle**  
For order Culture, Acid Fast Blood only. (Red cap/red label)

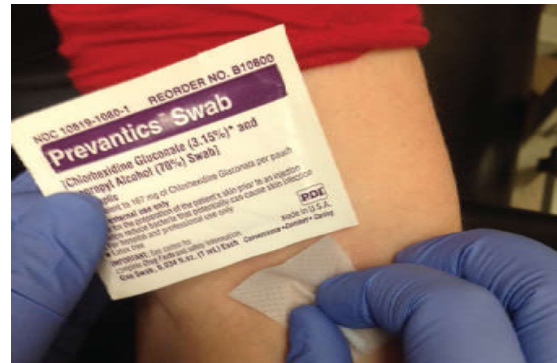


Vacutainer Hub or Transfer Device

### Other items needed:

Prevantics Swab for disinfection of area, appropriate sized syringe, appropriate gauge of butterfly needle, gauze, gloves, tourniquet, and appropriate bandaging.

## Collection Instructions for Patient and Bottle Preparation



Find suitable site for collection. Disinfect the collection area using a Prevantics Swab (usage instructions on back of pad).



Before the actual collection, disinfect top of the culture bottles with a 70% isopropyl alcohol swab or Prevantics Swab.

Adult	Recommended Blood Culture Volume	Total Volume to be Drawn	Blood Volume	
			Plus Aerobic /IF	Lytic/10 Anaerobic/IF
	<b>Ideal Volume</b>	20 mL	10 mL	10 mL
	<b>Acceptable Volume</b>	8-20 mL	4-10 mL	4-10 mL
	<b>Difficult Collection</b>	<7 mL	7 mL	

## Collection Instructions using Vacutainer Winged Set / Needle



Using a butterfly needle and vacutainer hub, directly transfer the optimal amount of blood (8-10mL) into each bottle. Collect the grey labeled-blue cap (aerobic) bottle first.

## Collection Instructions using Syringe



Using a butterfly needle attached to the appropriate sized syringe, draw off the optimal amount of blood (16-20mL) into the syringe. Discard butterfly needle into sharps container.



Attach your blood filled syringe to a transfer device. Transfer the blood (8-10mL) into each bottle. Collect the grey labeled-blue cap (aerobic) bottle first.

Pediatric	Recommended Blood Culture Volume by Patient Weight		Peds Plus/IF	Plus Aerobic /IF	Lytic/10 Anaerobic/IF	Total Volume to be Drawn
	Weight Range					
	Pounds	Kilograms				
	<11 lbs	<5 kg	1 mL			1 mL
	11 – 22 lb	5-10 kg	2 mL			2 mL
	22.1 – 44 lb	10.1 – 20 kg	3 mL		3 mL	6 mL
	44.1 – 88 lb	20.1 – 40 kg		5 mL	5 mL	10 mL
	>88 lb	>40 kg		10 mL	10 mL	20 mL

**NOTE:** Volume is very important in detection of bacteria. The more blood collected the better the chance of detecting the presence of bacteria.

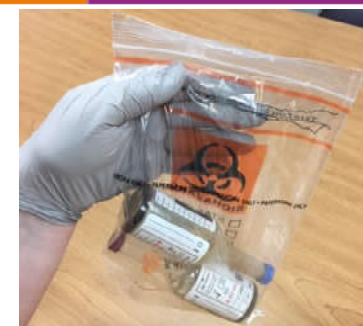
## Labeling Bottles



Discard all materials in their appropriate locations. Properly label the culture bottles.

- Place labels vertically making sure to not cover up the barcode area or volume markings.
- Include location of collection, i.e right arm, port, etc

## Packaging of Samples to Send to Lab Via Pneumatic Tube



Place bottles into a single biohazard bag and seal.



Place sealed biohazard bag into bubble wrap.



Place bubble wrapped bottle(s) into tube station carrier.

**LIMIT ONE SET OF BLOOD CULTURE BOTTLES PER TUBE CARRIER. DO NOT OVERSTUFF TUBE CARRIER.**