

BD BACTEC™ Blood Culture System

Blood culture collection instructions

Please follow your institution's policies and standard operating procedures.

WARNING: Universal precautions should be followed in handling all items contaminated with blood or other body fluids. Prior to use, (1) inquire if a patient has a history of adverse reaction to disinfectants (see Step 1 below); and (2) inspect all vials and discard any vials showing evidence of contamination, damage or deterioration.

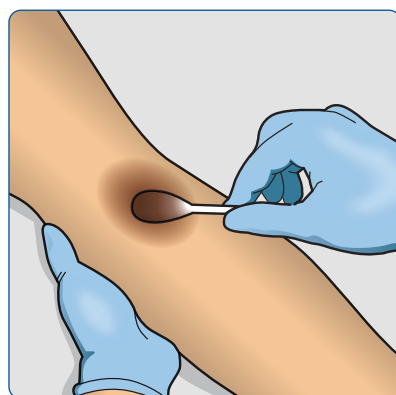
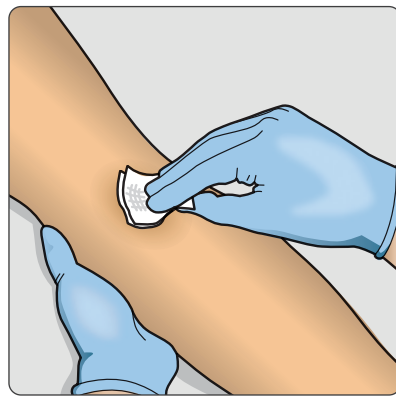
Step 1: Skin preparation^{1,2}

- Cleanse the venipuncture site with friction for 30 seconds, using a clean or sterile gauze pad with 70% isopropyl alcohol.
- Allow the alcohol to air dry.
- Apply the second disinfectant.
- Allow the disinfectant to remain in contact with the patient's skin for the duration recommended by the manufacturer.

NOTE: Similar methods of skin antisepsis also apply to pediatric patients. However, chlorhexidine gluconate (CHG) should be used with caution in babies under two months of age. Multiple applications of 70% isopropyl alcohol are an acceptable alternative for the skin disinfection of these patients.

- Allow the site to air dry for 30 seconds to 2 minutes.

NOTE: If the venipuncture proves difficult and the vein must be touched again to draw blood, the site should be cleansed again.



Step 2: Prepare BD BACTEC™ vials

- Collect BD BACTEC™ aerobic and anaerobic culture vials.

NOTE: For adults, obtain two to three blood culture sets (a set includes one aerobic and one anaerobic bottle) per episode within a 24-hour period. For pediatric patients, two to three blood culture sets (a set defined by institution-specific protocols) should be obtained within a 24-hour period.²

- Mark BD BACTEC™ culture vial label(s) at appropriate fill level.

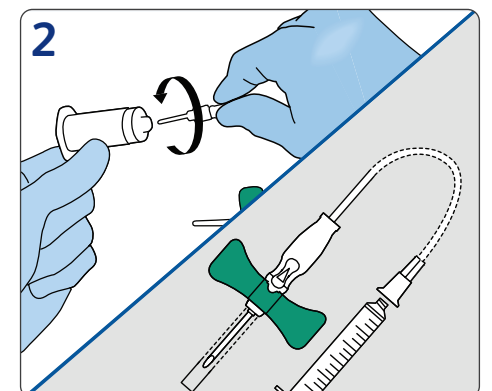
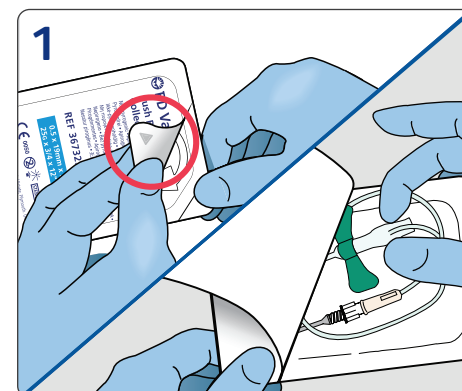
NOTE: Appropriate fill for adult vials is 8–10 mL³ and pediatric vials is 1–3 mL.⁴ The volume of blood drawn from newborns, infants, and children should be no more than 1% of the patient's total blood volume.²

- Remove flip-off caps from BD BACTEC™ culture vials.
- Clean the rubber septum of blood culture vials with 70% isopropyl alcohol and apply friction and allow to dry.

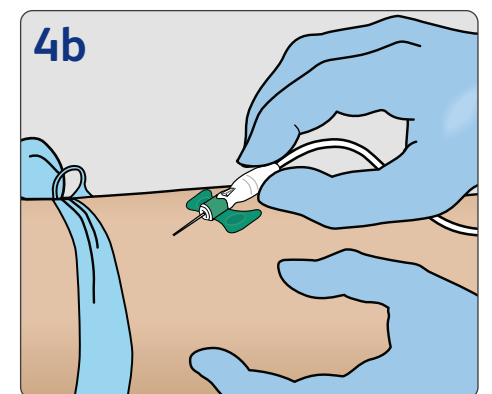
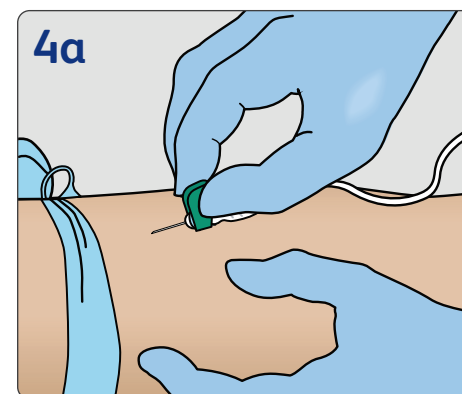


Step 3: Blood collection with BD Vacutainer® UltraTouch™ Push Button Blood Collection Set⁵

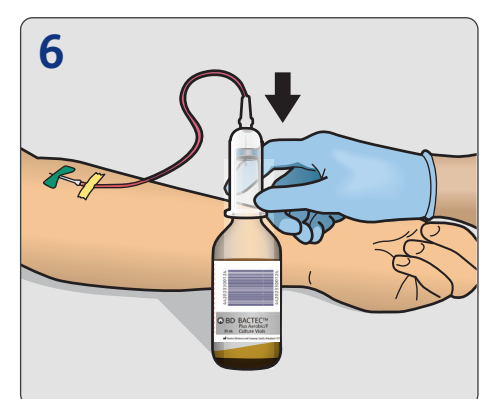
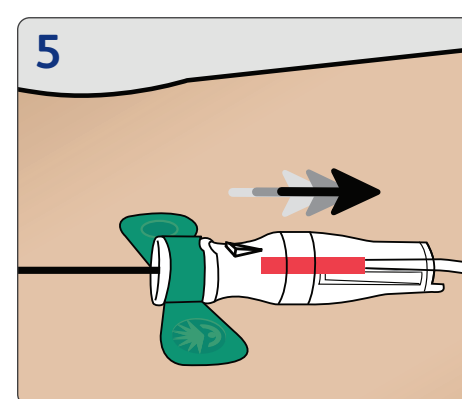
- 1 Peel back packaging at arrow so that the back end of the wingset is exposed. With thumb and middle finger, grasp the rear barrel of the wingset and remove from package. Be careful to avoid activating the button.
- 2 Assemble to BD Vacutainer® One-User Holder, if one is not pre-attached.
- 3 Apply tourniquet.
- 4a) With thumb and index finger, grasp the wings together and access vein using standard needle insertion technique.
- 4b) If preferred by your institution, the body of the device can be held, instead of the wings, during insertion.
- 5 Proper access to the vein will be indicated by the presence of "flash" directly behind and below the button.
 - Blood cultures are taken first in an order of draw procedure before any other blood collection tube. Select aerobic vial first. Hold the vial upright.
 - Release tourniquet as soon as blood flow is established.
- 6 Push and hold BD Vacutainer® UltraTouch™ Push Button Blood Collection Set holder over top of the vial to puncture rubber septum.
 - Collect blood to appropriate fill level on vial. Monitor to ensure proper flow and fill level.
 - Remove holder from vial. Immediately push and hold holder onto second vial.
 - Hold the vial upright. Collect blood to appropriate fill level on second vial. Remove holder from vial.
 - After completion of blood culture collections, if requested, draw blood samples and follow order of draw.



CAUTION: Never use a blood collection set without a holder or syringe attached.



or



NOTE: If more samples are required, additional tubes may be drawn at this time using the same BD Vacutainer® UltraTouch™ Push Button Blood Collection Set and holder.

Step 3 continued on side two.



Blood culture collection instructions

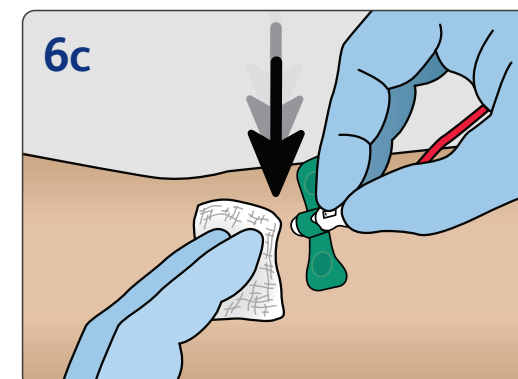
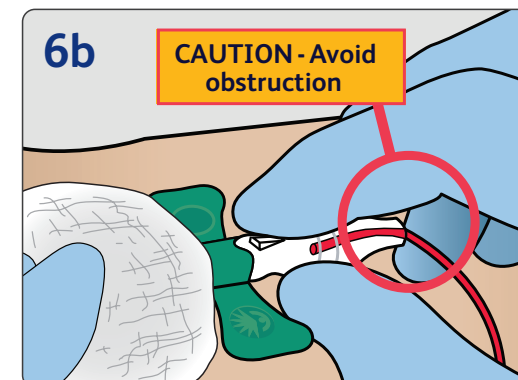
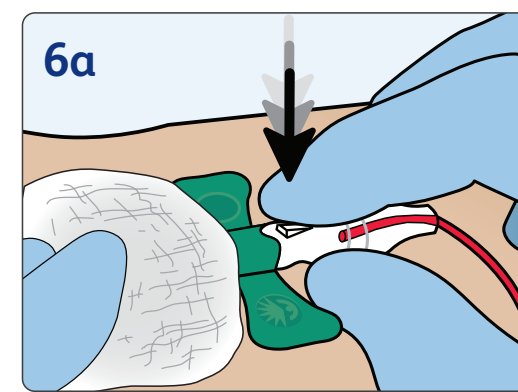
Step 3: Blood collection with BD Vacutainer® UltraTouch™ Push Button Blood Collection Set⁵

- The device is designed to be activated while the needle is still in the patient's vein. Place a sterile gauze pad on the venipuncture site. Allow gauze pad to cover nose of front barrel. Following the collection procedure, and (while the needle is still in the vein), grasp the body with the thumb and middle finger.

6a) Activate the button with the tip of the index finger. The needle will slide out of the venipuncture site and lock into place.

6b) Do not impede needle retraction.

6c) Apply pressure to the venipuncture site in accordance with your facility's protocol.



Step 4: Patient skin care

- Place the gauze pad over the site, continuing direct pressure. Check that bleeding has ceased and apply an adhesive or gauze bandage over the site.
- After all specimens have been collected, remove remaining skin antiseptic from collection site using a sterile alcohol swab.

Step 5: Disposal

- Confirm that the needle is in the shielded position prior to disposal.
- Discard the entire shielded blood collection set and holder into an approved sharps disposal container.
- Dispose of all other used materials in appropriate container and wash hands.

Step 6: Label vials

- To prevent clotting, blood culture vials or tubes should be inverted gently according to the manufacturers instructions as soon as possible after blood is drawn.¹
- Label all vials according to institutional guidelines. DO NOT write on or place any labels over the BD BACTEC™ vial barcode, as this is used by the instrument to process the specimen.

Step 7: Additional cultures may be collected in a similar way²

- A different venipuncture site should be used for each culture set collected.

NOTE: Transfer blood culture vials to laboratory immediately. Minimizing delays to the laboratory will improve turn-around-time for test results.

BD BACTEC™ Blood Culture System product information

BD BACTEC™ Blood Culture Media		
Cat. No.	Description	Quantity
442021	BD BACTEC™ Lytic/10 Anaerobic/F Culture Vials in plastic	50 bottles
442265	BD BACTEC™ Lytic/10 Anaerobic/F Culture Vials in glass	50 bottles
442022	BD BACTEC™ Plus Anaerobic/F Culture Vials	50 bottles
442023	BD BACTEC™ Plus Aerobic/F Culture Vials	50 bottles
442020	BD BACTEC™ Peds Plus™/F Culture Vials	50 bottles
442024	BD BACTEC™ Standard Anaerobic/F Culture Vials	50 bottles
442027	BD BACTEC™ Standard/10 Aerobic/F Culture Vials	50 bottles
442794	BD BACTEC™ Myco/F Lytic Culture Vials	50 bottles

BD Vacutainer® UltraTouch™ Push Button Blood Collection Sets		
Cat. No.	Description	Shelf pack / Case
364815	BD Vacutainer® One-Use Holder	250/1,000
367363	25 G x .75" needle with 12" tubing and luer adapter	50/200
367364	23 G x .75" needle with 12" tubing and luer adapter	50/200
367365	21 G x .75" needle with 12" tubing and luer adapter	50/200
368687	25 G x .75" needle with 12" tubing with preattached holder	20/100
368688	23 G x .75" needle with 12" tubing with preattached holder	20/100
368689	21 G x .75" needle with 12" tubing with preattached holder	20/100

For additional information, call **1.844.8.BDLife (1.844.823.5433)** or visit: bd.com/bsi

References

- CLSI. *Collection of Diagnostic Venous Blood Specimens*, 7th ed CLSI Standard GP41 Wayne PA. Clinical and Laboratory Standards Institute: 2017
- CLSI. *Principles and Procedures for Blood Cultures*. 2nd ed. CLSI guideline M47. Clinical and Laboratory Standards Institute; 2022
- BD BACTEC™ Plus Aerobic/F Culture Vials Instructions for Use. Sparks, MD: Becton, Dickinson and Company; 2023
- BD BACTEC™ Peds Plus™/F Culture Vials Instructions for Use. Sparks, MD: Becton, Dickinson and Company; 2019.
- BD Vacutainer® UltraTouch™ Push Button Blood Collection Set Instructions for Use. Franklin Lakes, NJ: Becton, Dickinson and Company; 2024

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bd.com

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