

BD Vacutainer® UltraTouch™ Push Button Blood Collection Set

Enabling improved blood culture sample collection to reduce the health and financial burdens associated with sepsis



The facts about sepsis

Sepsis is a life threatening condition caused by the body's response to an infection, resulting in organ dysfunction and failure.¹

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Globally, an estimated 31.5 million cases of sepsis are diagnosed each year, with an estimated 5.3 million deaths. ²	As a leading cause of mortality and critical illness worldwide, sepsis hospital mortality rates range from 25%–30% . ²	Clinical studies have demonstrated a two-fold increase in mortality caused by sepsis when inappropriate antimicrobial therapy is given. ³	The average cost per hospital stay for sepsis is \$18,000—2x the average cost per stay across all other conditions. ⁴

Blood culture is critical for detecting and treating sepsis⁵

The right diagnosis begins in the preanalytical phase with blood culture sample collection

Challenges in patient preparation and sample collection can result in preanalytical errors, accounting for up to 70% of all the clinical errors made in laboratory diagnosis. As a result, following best practices in the preanalytical stage of the blood culture sample pathway is extremely important.

Good sample collection minimizes risk of contamination and ensures that sufficient blood volume is collected. If contamination or insufficient blood is collected, it may be impossible to accurately recover and isolate the organism(s) causing infection, a step which is required for appropriate diagnosis and treatment of the patient.

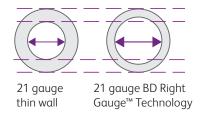


Advances in technology can help improve sufficient blood volume collection

Sufficient blood volume is one of the critical determinants for an optimal yield of organisms for identification. The yield of pathogens increases in direct proportion to the volume of blood cultured.⁷

The BD Vacutainer® UltraTouch™ Push Button Blood Collection Set incorporates BD RightGauge™ Ultra-Thin Wall Cannula Technology, which:

- 1. Allows greater sample fill volume to be collected in blood culture bottles⁸
- 2. Improves blood flow rates
- 3. Provides a larger inner diameter while maintaining a set outer diameter



21 gauge BD Vacutainer[®] UltraTouch[™] Push Button Blood Collection Set has been shown to:

- Improve sample fill volume by 2.5 mL⁹
- Reduce blood culture underfill rates by 24%⁹



Contact your BD Sales Consultant to learn how we can help you implement best practices in the preanalytical phase of blood culture sample collection

BD Vacutainer® UltraTouch™ Push Button Blood Collection Set ordering information:

Cat no.	Description	Shelf pack/case
368689	21 G x 0.75" needle with 12" tubing with preattached holder	20/100
368688	23 G x 0.75" needle with 12" tubing with preattached holder	20/100
368687	25 G x 0.75" needle with 12" tubing with preattached holder	20/100
367365	21 G x 0.75" needle with 12" tubing and luer adapter	50/200
367364	23 G x 0.75" needle with 12" tubing and luer adapter	50/200
367363	25 G x 0.75" needle with 12" tubing and luer adapter	50/200
364815	BD Vacutainer® One Use Holder	250/1,000

To learn more, call 800.631.0174 or visit **bd.com/Vacutainer/Ultratouch**

To optimize your blood culture sample collection process, also consider BD ChloraPrep™ Skin Preparation products and BD BACTEC™ blood culture bottles.

References

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 5. Patel M. J. Acad Clin Microbial. 2016;18(2):74-79.
- 6. Plebani M. Quality Indicators to Detect Pre-analytical errors in Laboratory Testing. Clin Biochem Rev. 2012;33:85-88.
- 7. Lamy B, Dargère S, Arendrup MC, Parienti J-J, Tattevin P. How to Optimize the Use of Blood Cultures for the Diagnosis of Bloodstream Infections? A State-of-the Art. Front. Microbiol. 2016; 7:697.
- 8. Evaluation of Draw Volume, Fill Time and Fill Rate for BD BACTEC[™] Blood Culture Bottles using the BD Vacutainer[®] UltraTouch[™] Push Button Blood Collection Set compared to the BD Vacutainer[®] Push Button Blood Collection Set. White paper VS9381. Franklin Lakes: BD; 2019.
- 9. Lakeridge Health-Oshawa case study.

BD, Franklin Lakes, NJ, 07417, U.S.

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