

Streck Blood Collection Tube (BCT) Phlebotomy Best Practices



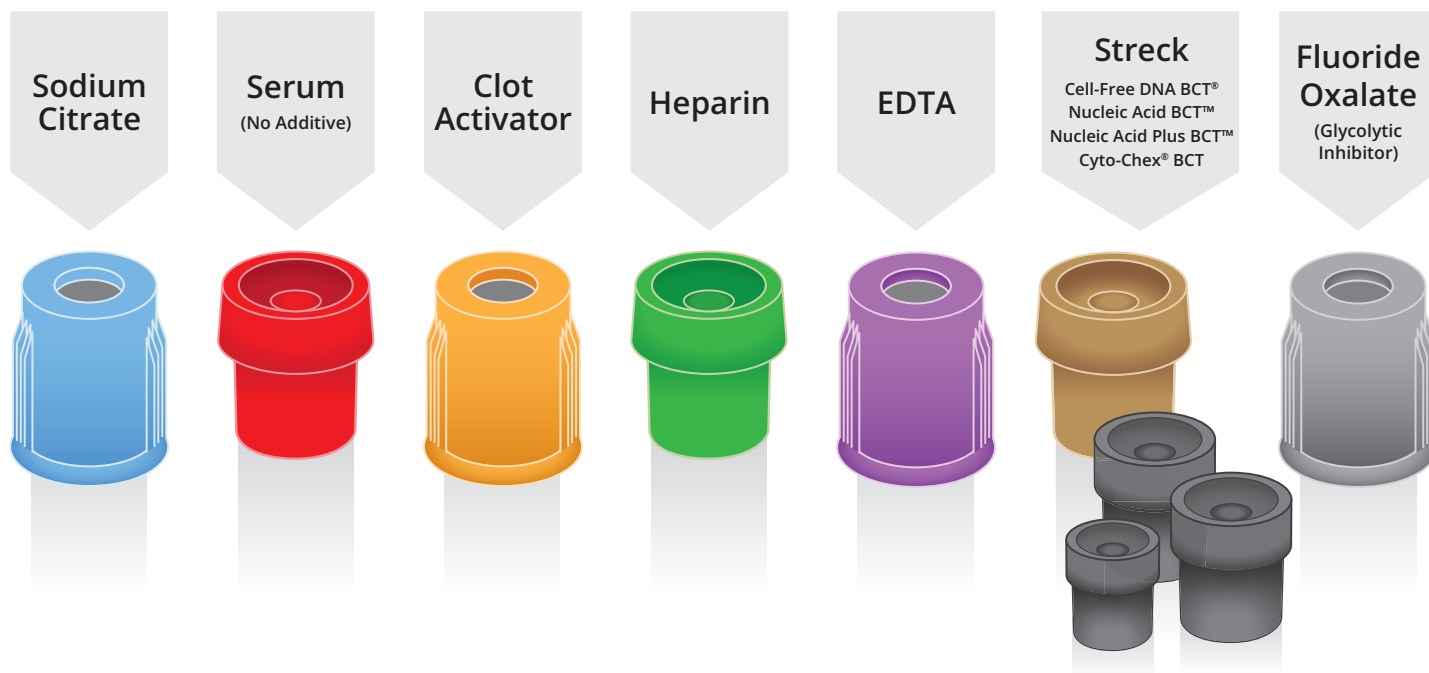
Streck provides this guideline for qualified laboratory personnel who are trained to perform routine venipuncture using Streck blood collection tubes (BCTs)*.

Phlebotomy highlights

1. Follow the CLSI Approved Standard "Collection of diagnostic venous blood specimens," CLSI Document PRE02¹ and Best Practices in Phlebotomy, the World Health Organization Guidelines on Drawing Blood².
2. Streck BCTs are designed to be direct draw blood collection tubes. Transferring a blood sample collected with a syringe and needle into Streck BCTs is not recommended due to the increased potential for hemolysis. If a syringe transfer is necessary, it is recommended a safety transfer device be used in accordance with PRE02 section 6.4.16.
3. For order of draw, follow recommendations outlined in PRE02. Streck BCTs can be drawn after the EDTA tube and before the fluoride oxalate (glycolytic inhibitor) tube. If a Streck BCT immediately follows a heparin tube in the draw order, we recommend collecting a non-additive or EDTA tube as a discard tube prior to collection in the Streck BCT.
4. The following materials are required and not provided with Streck BCTs:
 - a. Any standard size needle holder that can accommodate a 16 mm diameter tube (10 mL configurations), a 13 mm diameter tube (5 mL configurations) or a 10.25 mm diameter tube (2 mL configurations).
 - b. To aid in proper insertion of 10.25 mm diameter tube into a standard holder, a secondary small diameter tube adapter, such as the Vanishpoint® Small Diameter Tube Adapter, can be used. See figure 2. When using Streck BCTs, ensure the stopper is centered before pressing onto the needle.

Note: Slower fill times may be observed when using a larger gauge needle.

Streck BCTs draw like conventional tubes.

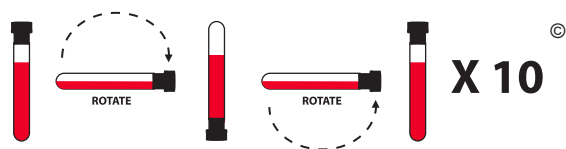


Direct draw through the stopper using standard needle holders and standard venipuncture technique. Post-draw handling differs. See items 2 through 9.

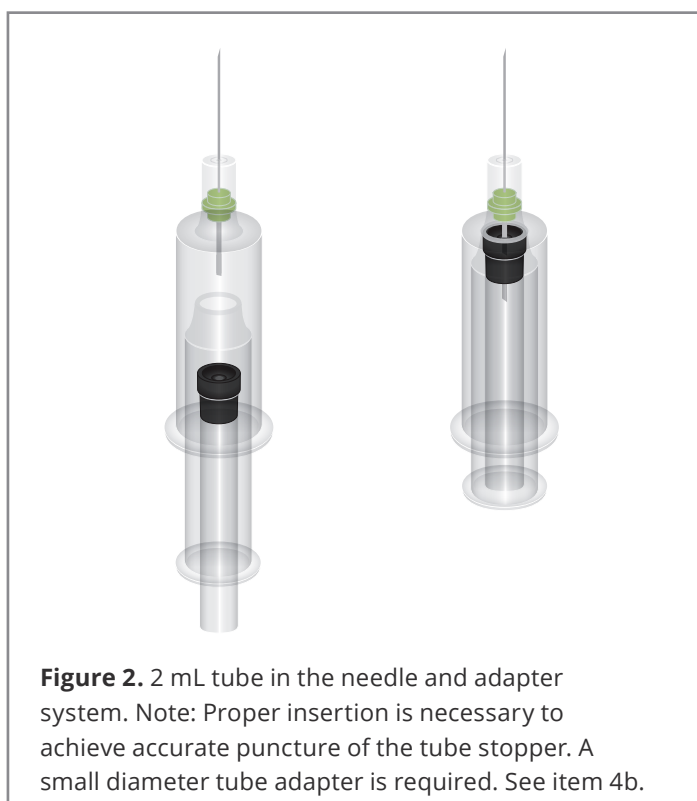
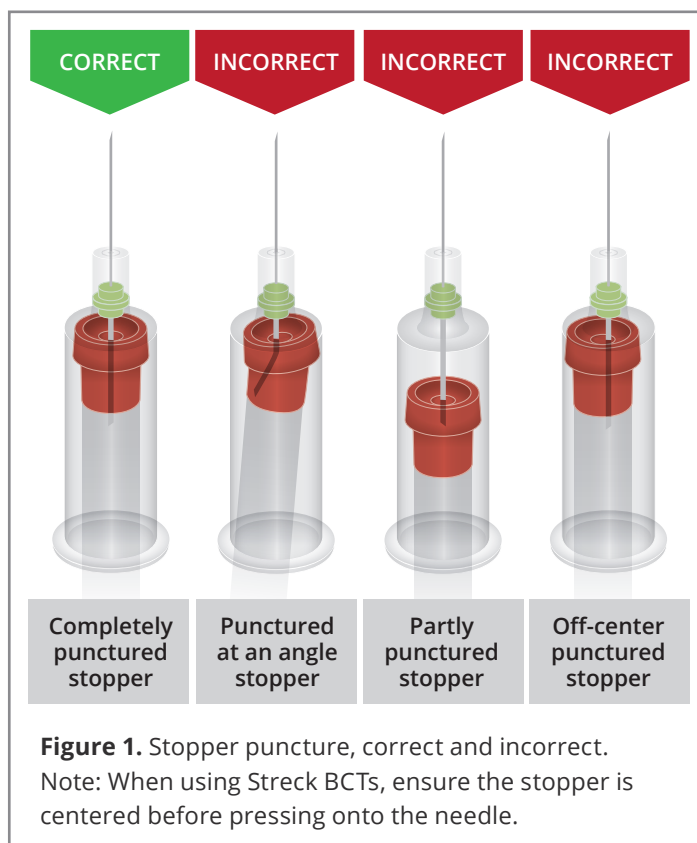
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*Streck BCTs: Cell-Free DNA BCT, Nucleic Acid BCT, Nucleic Acid Plus BCT and Cyto-Chex BCT

5. When using a winged (butterfly) collection set for venipuncture and the Streck BCT is the first tube drawn, a non-additive or EDTA discard tube should be partially drawn first in order to eliminate air or “dead space” from the tubing.
6. As with all blood collection tubes that contain chemical additives, position the patient’s arm in the downward position during the collection procedure to prevent reflux or “backflow” from the collection tube into the vein.
7. Insert the Streck BCT into the plastic holder and hold the tube so the stopper is flush against the needle holder as the sample is being collected. See figure 1.
8. Allow the tube to fill until the vacuum is exhausted and blood flow ceases. Streck BCT labels do not include a line marking a complete draw. Fill may require 60 to 90 seconds or longer. In case of vein collapse, a second puncture and new tube may be required.
9. It is critical to mix tubes thoroughly by gentle inversion 10 times immediately after draw. Inadequate or delayed mixing may result in incorrect analytical results or poor product performance. One inversion is a complete turn of the wrist, 180 degrees, and back, per the figure below.
10. Visit [streck.com/mixing](https://www.streck.com/mixing) for a video demonstration.



11. Refer to product specific Instructions for Use (IFU) for recommended storage temperatures, stability information and additional information regarding the blood collection tubes.



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Tube configurations:

Product	Draw Volume	Kit Configurations	Catalog Number
Cell-Free DNA BCT®	10 mL	6-tube pack	230469
		100-tube box	230470
		1000-tube case	230471
Cell-Free DNA BCT® RUO	10 mL	6-tube pack	218961
		100-tube box	218962
		1000-tube case	218992
Cell-Free DNA BCT® CE	10 mL	6-tube pack	218996
		100-tube box	218997
		1000-tube case	230244
Nucleic Acid BCT™	5 mL	6-tube pack	230637
		100-tube box	230638
		1000-tube case	230639
	10 mL	6-tube pack	230644
		100-tube box	230645
		1000-tube case	230646
Nucleic Acid Plus BCT™	5 mL	6-tube pack	230698
		100-tube box	230699
		1000-tube case	230700
	10 mL	6-tube pack	230705
		100-tube box	230706
		1000-tube case	230707
Cyto-Chex® BCT	2.0 mL	6-tube pack	213559
		100-tube box	218980
	5.0 mL	6-tube pack	213361
		25-tube box	213362
		100-tube box	213386

References

1. CLSI PRE02, Collection of diagnostic venous blood specimens. Approved Standard - Eighth Edition.
2. WHO Guidelines on Drawing Blood: Best Practices in Phlebotomy; World Health Organization, 2010.

Information in this guideline is subject to change without notice. Streck assumes no responsibility for protocols generated from this guideline.

Cell-Free DNA BCT is U.S. FDA cleared when paired with the Guardant360® CDx and Guardant Shield™ assays. Cell-Free DNA BCT is also available as RUO and CE depending on your region. Nucleic Acid BCT and Nucleic Acid Plus BCT are available as RUO. RUO tubes are Research Use Only and not for use in diagnostic procedures. RUO tubes should only be used for research or the development of new assays. Cyto-Chex BCT is U.S. FDA cleared for consistent recovery of HIV-associated lymphocyte subsets for up to 14 days following collection.

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See [streck.com/patents](https://www.streck.com/patents) for patents that may be applicable to these products.

