

# CEE-Sure™ Blood Collection Tube

## INSTRUCTIONS FOR USE

The CEE-Sure™ Blood Collection Tube (BCT) is intended for collection, stabilization, transport, and storage of whole blood samples. **This product is for Research Use Only, not used for diagnostic procedures.**

## SUMMARY AND PRINCIPLES

CEE-Sure™ (BCT) is designed to prevent blood coagulation, and to preserve cells from lysing due to age or transport conditions. Combined with anticoagulation, CEE-Sure prevents cells from assembling into cell clusters, due to shear force activation, inside microfluidic devices. CEE-Sure™ allows for room temperature shipment of whole blood for nucleated cell isolation, and for cfDNA and cfRNA detection.

CEE-Sure™ has been demonstrated to stabilize nucleated cells (including CTCs), by preventing lysis and differentiation, for up to 4 days (including shipment agitation). Preventing cell lysis decreases undesired genomic DNA, and other cellular components, from being released into plasma. By keeping the baseline levels of genomic DNA in plasma stable, CEE-Sure™ allows DNA analysis for up to 8 days post collection

The anticoagulant in CEE-Sure™ prevents collected blood from clotting, while the preservative stabilizes cells, preventing them from lysing and differentiating.

Blood collected in CEE-Sure™ tube should be kept at ambient conditions (18°C-25°C) for CTC collection, and between 6° and 37°C for ctDNA analysis

## REAGENTS

CEE-Sure™ BCTs contain anticoagulant ACD-A (Acid Citrate Dextrose) and a Formaldehyde Releasing Reagent as a preserving agent in a liquid medium.

## PRECAUTIONS

1. **For Research Use Only, not used for diagnostic procedures.**
2. Do not use tubes after expiration date.
3. Do not use CEE-Sure™ tubes for collection of materials that will be injected into patients.
4. Do not add to or dilute components in CEE-Sure™ tubes.
5. Store unfilled CEE-Sure™ tubes away from direct sunlight.
6. Do not freeze CEE-Sure™ tubes.
7. Do not overheat CEE-Sure™ tubes (above 40°C).
8. Glass tubes have a risk of breaking.
9. When and after collecting specimens, treat CEE-Sure™ tubes according to federal and state codes for biological samples.
10. Dispose of CEE-Sure tubes with biohazardous waste.
11. Do not remove the stopper prior to sample collection.
12. If stopper is removed after blood collection, make sure to fully press the stopper back into the tube. However, sample leakage may still occur.

## CAUTION

1. Precautionary measures should be taken when handling glass tubes due to potential for breakage.
2. Blood and other biological specimens should be treated as a biohazard. Avoid contact with mucous membranes and skin.
3. If skin contact should occur, immediately rinse with soap and water, rinse thoroughly, and seek medical advice.
4. If eye contact should occur, immediately rinse with water for at least 15 minutes and seek medical advice.
5. Dispose of product with biohazardous medical waste
6. SDS is available at [www.biocept.com](http://www.biocept.com).

## STORAGE & STABILITY

1. Empty CEE-Sure™ tubes are stable through expiration date when stored at 4° C to 40° C.
2. Frozen empty CEE-Sure tubes may lose vacuum.

	Sample Type	
	CTCs	Nucleic Acid
Sample Stability	Up to 4 Days	Up to 8 Days
Sample Storage Temperature	18°C-25°C	6°C-37°C

## INDICATIONS OF PRODUCT DETERIORATION

1. Precipitate or cloudiness visible in reagent of tube prior to blood draw.
2. Visible yellowing of the reagent prior to blood draw.
3. CEE-Sure™ tubes do not maintain vacuum if stopper seal is compromised.

## INSTRUCTIONS FOR USE

1. Cee-Sure tubes should be filled according to CLSI GP41-A6.
2. Avoid back flow in order to not expose patient to the reagent.
  - a. Keep patient arm in a downward position.
  - b. Apply tourniquet.
  - c. Hold tube vertically in relation to patient arm.
  - d. Release tourniquet once blood starts flowing.
  - e. Once blood stops flowing
3. Immediately invert the tube fully 3-5 times to ensure reagent mixing.

## LIMITATIONS

1. For single use only.
2. Under-filling the tube will result in improper preservative ratio and may lead to incorrect analytical results.

## REFERENCES

1. Clinical and Laboratory Standards Institute. GP41-A6, Procedures for the collection of diagnostic blood specimens by venipuncture. Approved Standard - Sixth Edition.

## ORDERING INFORMATION

Orders may be placed online at <https://us.vwr.com/store/>. For more information, please visit [www.biocept.com](http://www.biocept.com) or call Customer Service at 888-332-7729.

## Biocept, Inc.

5810 Nancy Ridge Drive, Suite 150, San Diego, CA 92121 USA