STRECK

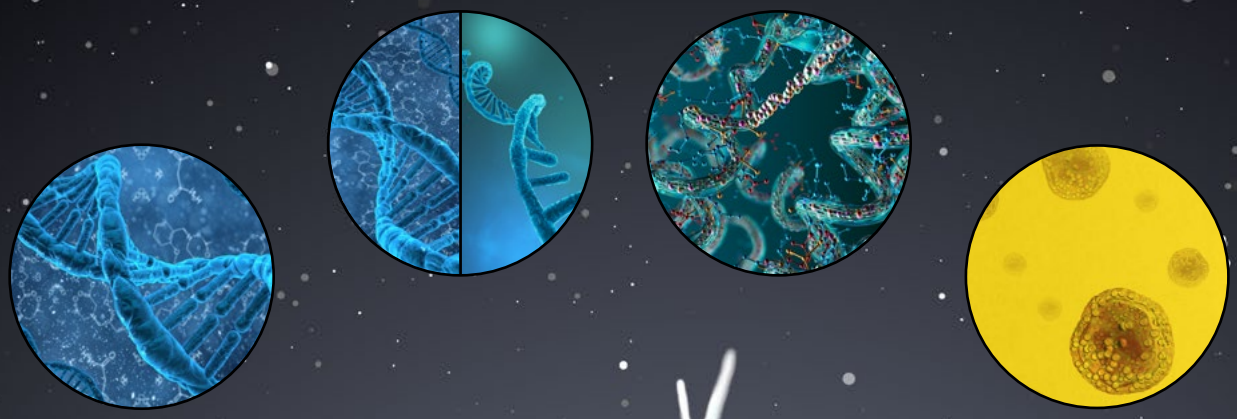
streck.com

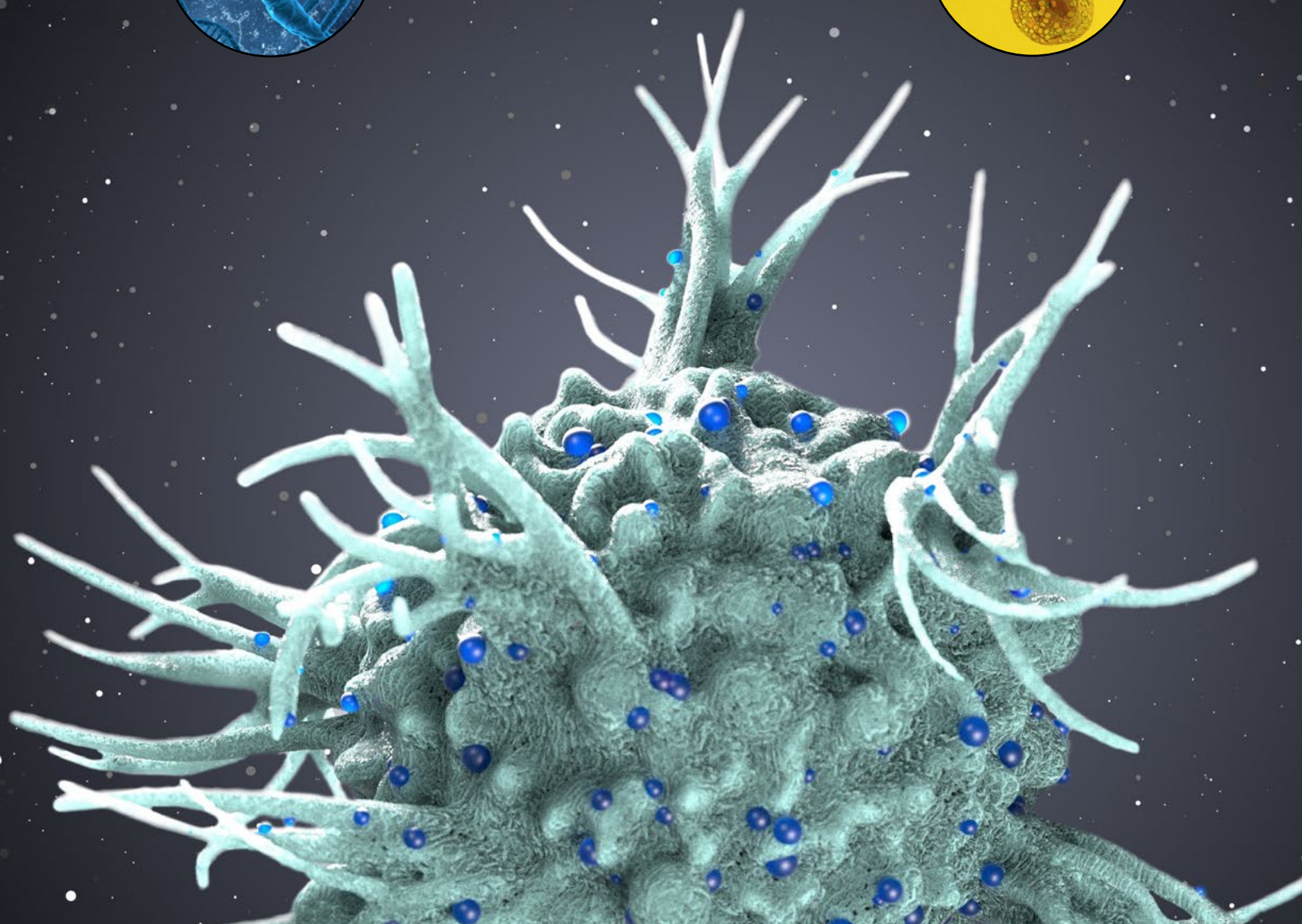
Streck Stabilization Guide

Worry-free sample transport.

Our stabilization solutions limit sample breakdown during shipping, ensuring reliable results.

We provide blood collection tubes for researchers looking at cell-free DNA , cell-free RNA, extracellular vesicles and plasma proteins and a preservative reagent for researchers looking at cell-free DNA in urine.



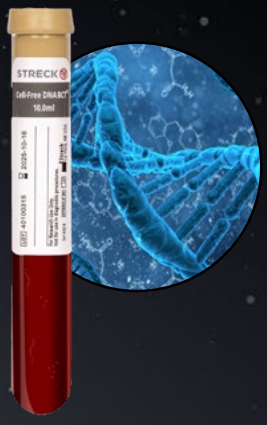


Making history

Over 10 years ago, we introduced Cell-Free DNA BCT® as the first blood collection tube designed to help researchers limit pre-analytical variation in plasma for cell-free DNA-based studies. After being granted de novo status recognizing it as a novel medical device, it became the first U.S. FDA cleared whole blood collection tube that stabilizes cell-free DNA and reduces the release of cellular genomic DNA. Cell-Free DNA BCT mitigates the risk of sample breakdown during handling, shipping and storage. It is cleared in the U.S. for use with U.S. FDA-cleared or approved next-generation sequencing liquid biopsy assays where it maintains critical whole blood samples from cancer patients for up to 7 days prior to extraction and analysis.

Moving forward

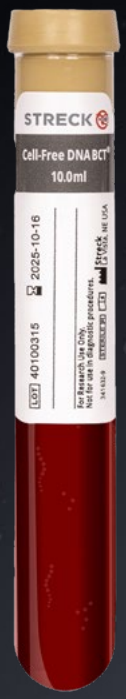
As the liquid biopsy field advances to include cell-free RNA, extracellular vesicles and proteins, we've expanded our stabilization portfolio to meet the needs of researchers exploring new avenues of plasma analysis. Just like Cell-Free DNA BCT, our other blood collection tubes are formulated to maintain draw-time concentrations of target analytes. These stabilization solutions allow you to ship and store critical samples at room temperature without worrying about compromised sample integrity.



Cell-Free DNA BCT

Performance characteristics of this device have only been established in the U.S. on the Guardant360® CDx and Guardant Shield™ assay.

For In Vitro Diagnostic Use



Cell-Free DNA BCT®

Cell-Free DNA BCT is a direct-draw venous whole blood collection device intended for the collection, stabilization and transport of venous whole blood samples for use in conjunction with cell-free DNA next generation sequencing assays that have been cleared or approved for use with samples collected into the Cell-Free DNA BCT device.

Highlights

+ Reduces the release of genomic DNA
+ Stabilizes cell-free DNA for up to 7 days (Figure 1)
+ CTCs and cfDNA isolated from stored plasma can be used in next generation sequencing assays*

*Performance characteristics of this device have only been established in the U.S. for the Guardant360® CDx and Guardant Shield™ assay

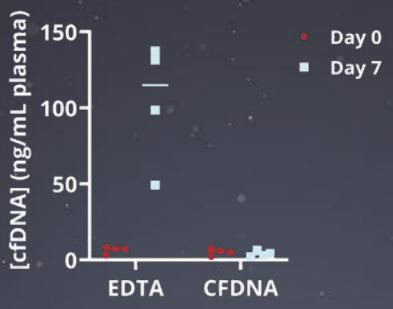


Figure 1. Cell-free DNA concentrations in blood collected into EDTA or Cell-Free DNA BCT (CFDNA) at draw or after 7 days of ambient temperature storage.

For In Vitro Diagnostic Use

Cell-Free DNA BCT RUO and
Cell-Free DNA BCT CE are also available.

Cell-Free DNA BCT RUO should only be used for research or the development of new assays.

Product Page

For Research Use Only.
Not for use in diagnostic procedures.

Nucleic Acid BCT should only be used for research or the development of new assays.

Product Page

Nucleic Acid BCT™

Nucleic Acid BCT is a direct-draw venous whole blood collection device that maintains draw-time concentrations of cell-free DNA, cell-free RNA and extracellular vesicles for up to 7 days when stored at room temperature.

Highlights

+ Eliminates the need for immediate plasma preparation
+ Compatible with commercially available total plasma nucleic acid isolation kits
+ Stabilizes sample for cell-free DNA, cell-free RNA and extracellular vesicles for up to 7 days of ambient temperature storage (Figure 2)

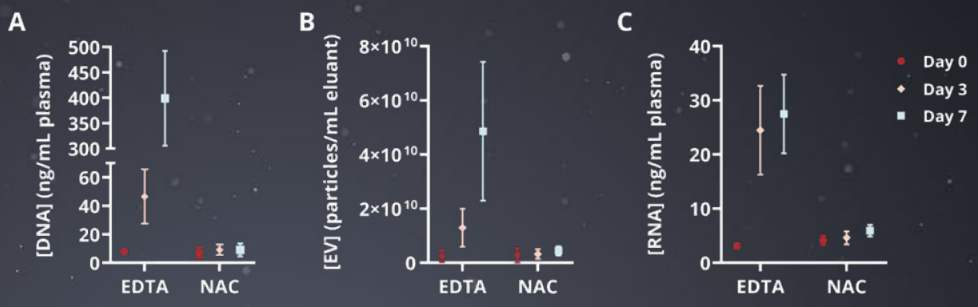


Figure 2. Cell-free DNA (**A**), extracellular vesicle (**B**) or cell-free RNA (**C**) concentrations in blood collected into EDTA or Nucleic Acid BCT (NAC) at draw or after 3 or 7 days of ambient temperature storage.

Protein Plus BCT™

Protein Plus BCT is a direct-draw whole blood collection device that stabilizes draw-time concentrations of plasma proteins for up to 5 days* at ambient temperature.

*Depending on protein

For Research Use Only.
Not for use in diagnostic procedures.

Protein Plus BCT should only be used for research or the development of new assays.

Product Page

Highlights

+ Stabilizes plasma protein markers and limits *ex vivo* platelet activation (Figure 3)
+ Provides sample integrity during storage, shipping and handling
+ Compatible with mass spectrometry and immunoassay-based proteomic analysis

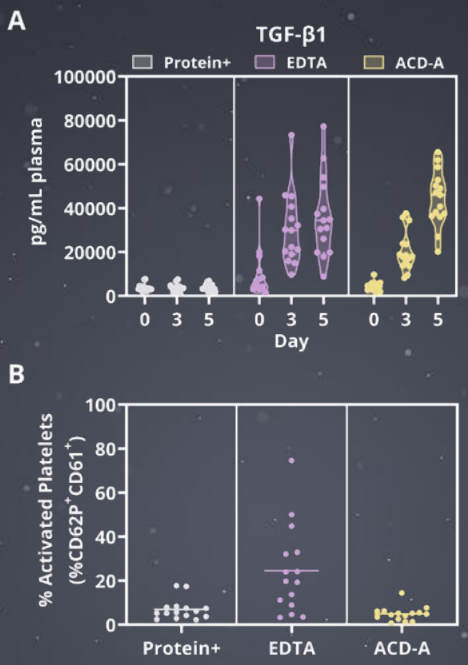
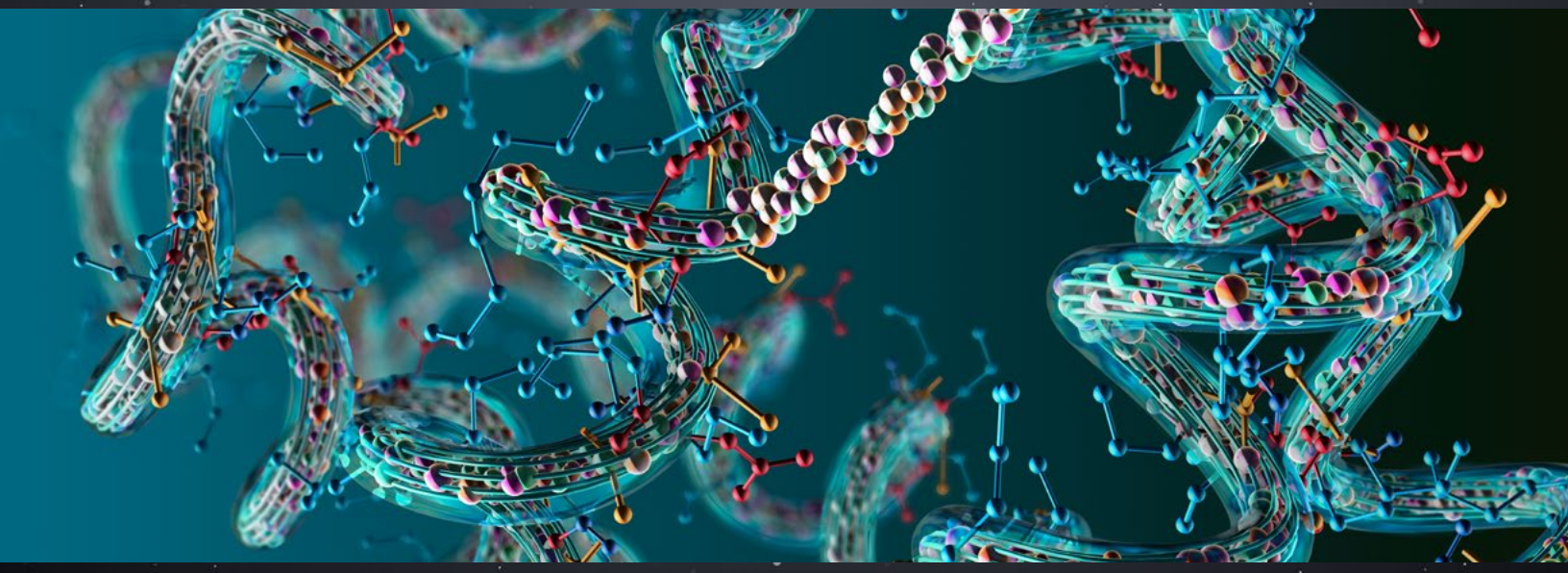


Figure 3. (**A**) Plasma protein marker (TGF-β1*) concentration in blood collected into Protein Plus BCT (Protein+), EDTA or ACD-A at draw or after 3 or 5 days of ambient temperature storage. (**B**) Draw-time platelet activation in samples collected into Protein Plus BCT (Protein+), EDTA or ACD-A.

*TGF-β1 is a representative marker.

For additional protein marker data, visit **streck.com/products/stabilization/protein-plus-bct**



Streck® Urine Preserve

Streck Urine Preserve is a ready-to-use liquid reagent that stabilizes nucleic acid targets in urine for up to 7 days at 6 °C to 37 °C.

Highlights

+ Maintains the collection-time concentrations of nucleic acids in urine (Figure 4)
+ Inhibits bacterial growth in urine samples (Figure 4)
+ Can easily be added at time of collection

For Research Use Only.
Not for use in diagnostic procedures.

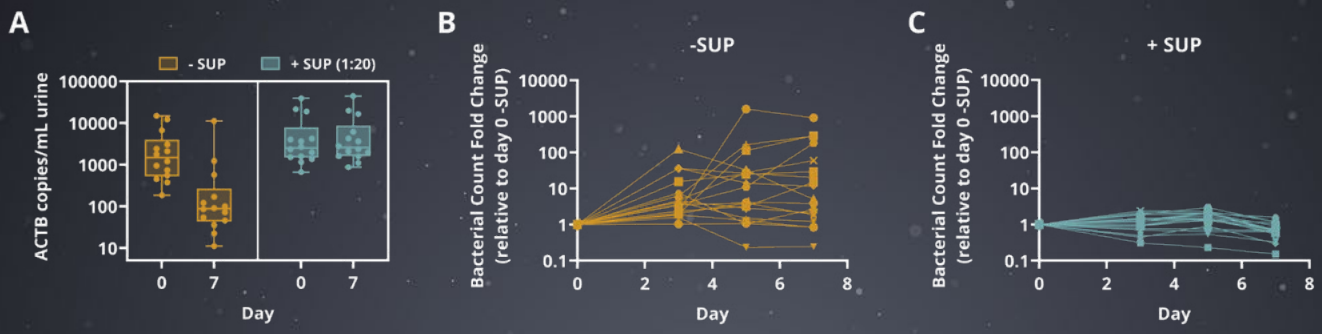
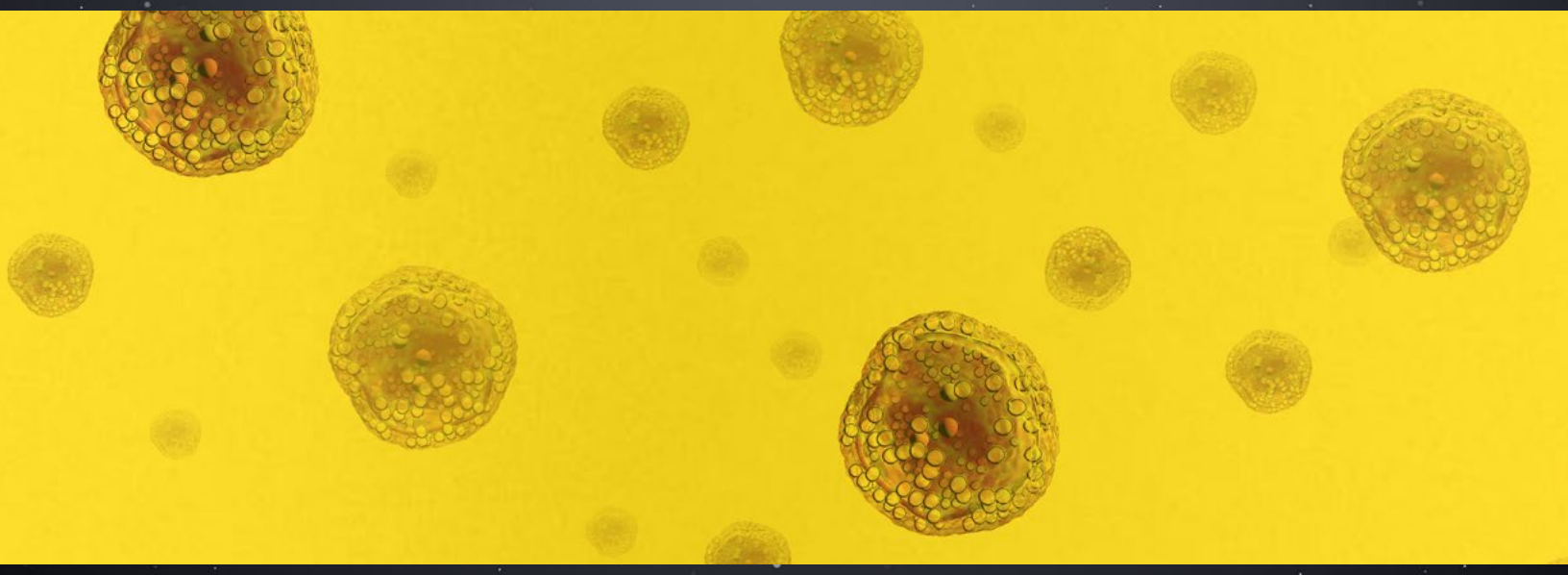


Figure 4. (**A**) Urinary cfDNA concentration in urine samples left untreated (-SUP) or preserved with Streck Urine Preservative (SUP) at 1:20 SUP:Urine (+SUP) at void and after 7 days of ambient temperature storage. (**B**, **C**) Bacterial count in urine samples left untreated (-SUP) or preserved with Streck Urine Preservative (SUP) at 1:20 SUP:Urine (+SUP) at void and after 3, 5 and 7 days of ambient temperature storage

Product Page



Beyond the BCT: Kit Compatibility

Because we know that your research doesn't stop after draw, we've compiled a list of analyte isolation and preparation kits that can be used with samples drawn into our blood collection tubes*.

Cell-Free DNA BCT®

+ QIAamp® Circulating Nucleic Acid Kit
+ Zymo MAGic Bead™ cfDNA Isolation Kit

Nucleic Acid BCT™

+ MagMAX™ Cell-Free Total Nucleic Acid Isolation Kit
+ Plasma/Serum Circulating and Exosomal RNA Purification Kit
+ NEBNext® Ultra™ II Directional RNA Library Prep Kit
+ TruSight® DNA Library Prep Kit

Protein Plus BCT™

+ Seer Proteograph™ XT Assay Kit
+ Protifi™ S-Trap™ Universal Proteomics Sample Kits
+ Bio-Techne® Simple Plex™ Assays (Ella™)
+ Bio-Techne Luminex® Discovery and High Performance Assay

*While this list defines compatibility with certain kits, this information does not serve as a recommendation for use of these kits with samples collected into Streck BCTs. Protocols for each kit may require additional modification during use.

Other stabilization solutions from Streck

Streck Cell Preservative®

Maintains peripheral and cord blood samples, surgical tissue samples, bone marrow and fine needle aspirates for up to 7 days prior to flow cytometry analysis.

Product Page

Cyto-Chex® BCT

Stabilizes HIV-associated lymphocyte subsets for up to 14 days of room temperature storage.

Product Page

Cell-Free DNA BCT®	Configuration	Item Number
Cell-Free DNA BCT® RUO & CE‡ 10.0 mL tube – 16 x 100 mm	6-tube pack glass, CE‡	218996‡
	100-tube box glass, CE‡	218997‡
	1000-tube case glass, CE‡	230244‡
	6-tube pack glass, RUO**	218961**
	100-tube box glass, RUO**	218962**
	1000-tube case glass, RUO**	218992**
	***For Research Use Only. Not for use in diagnostic procedures.* *‡Cell-Free DNA BCT CE is for Export Only. Not for use in the U.S.*	
Cell-Free DNA BCT 10.0 mL tube – 16 x 100 mm	6-tube pack glass†	230469†
	100-tube box glass†	230470†
	1000-tube case glass†	230471†
	†For In Vitro Diagnostic Use	

Cell-Free DNA BCT is available as an RUO, CE or IVD device depending on region of use.
Please see **streck.com** for more information.
Performance characteristics of this device have only been established in the U.S. on the Guardant360® CDx assay and Guardant Shield™ assay.

Nucleic Acid BCT™	Configuration	Item Number
	6 tube pack Nucleic Acid BCT (5 mL), RUO	230637
	100-tube box Nucleic Acid BCT (5 mL), RUO	230638
	1000-tube case Nucleic Acid BCT (5 mL), RUO	230639
	6-tube pack Nucleic Acid BCT (10 mL). RUO	230644
	100-tube box Nucleic Acid BCT (10 mL). RUO	230645
	1000-tube case Nucleic Acid BCT (10 mL). RUO	230646
	For Research Use Only. Not for use in diagnostic procedures.	

Protein Plus BCT™	Configuration	Item Number
	6 tube pack Protein Plus BCT (5 mL), RUO	230627
	100-tube box Protein Plus BCT (5 mL), RUO	230628
	1000-tube case Protein Plus BCT (5 mL), RUO	230629
	For Research Use Only. Not for use in diagnostic procedures.	

Streck® Urine Preserve	Configuration	Item Number
	Streck Urine Preserve 12 x 5.0 mL	230599
	Streck Urine Preserve 120 x 5.0 mL	230604
	Streck Urine Preserve CE 12 x 5.0 mL	230631
	Streck Urine Preserve CE 120 x 5.0 mL	230632
	For Research Use Only. Not for use in diagnostic procedures.	

Continue your stabilization exploration at **streck.com/stabilization**.