

## Blood Collection Tube

Cyto-Chex® BCT is a direct-draw blood collection tube used for immunophenotyping of white blood cells by flow cytometry. Now available in a unique hybrid plastic tube.



Powered by  
**FUSi2N™**

Fusion2 is a unique hybrid tube material that combines the benefits of glass with the safety of plastic.

### Features and Benefits

- Direct-draw blood collection tube for the preservation of whole blood specimens
- Preservative minimizes the adverse effects of time, storage and transport conditions on sample integrity
- Samples can be held for up to 14 days prior to analysis, allowing for batch processing

### Cell Stabilization

- Maintains cellular morphology and surface antigen expression
- Samples are stable at room temperature for convenient transport and storage
- FDA 510(k) cleared for consistent recovery of HIV-associated lymphocyte subsets for 14 days

### Batching

Samples collected in Cyto-Chex BCT can be stored at room temperature for 14 days prior to analysis, improving laboratory efficiency.

- Reduce valuable labor time
- Reduce daily flow cytometry start-up costs
- Reduce the need for patient redraws

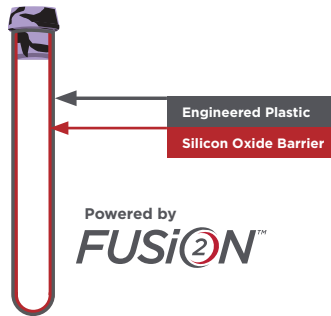
### Associated Product

Streck Cell Preservative™ is a liquid preservative that maintains cellular antigen expression, including cluster of differentiation (CD) markers and cell morphology of biological samples, for analysis by flow cytometry. Product is available in 1.0 mL or 10 mL screw cap vials.

### Ordering Information

Product Description	Catalog #
<b>Cyto-Chex BCT Hybrid Plastic</b>	
6-tube pack (4.0 mL)	230304
25-tube box (4.0 mL)	230305
100-tube box (4.0 mL)	230306
1000-tube case (4.0 mL)	230353
<b>Cyto-Chex BCT Glass</b>	
6-tube pack (2.0 mL)	213559
100-tube box (2.0 mL)	218980

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Fusion2 is a unique hybrid plastic tube composed of a medical-grade plastic with a silicon-based internal barrier coating, providing the benefits of glass with the safety and convenience of plastic.

The new Fusion2 tube offers sample stabilization identical to the glass Cyto-Chex BCT which have been used by researchers in studies and clinical trials worldwide.

Fusion 2 Attributes	Features	Customer Benefits
Oxygen Barrier & Vacuum Retention	Silicon-based barrier layer prevents oxygen from permeating through the plastic.	<ul style="list-style-type: none"> <li>A strong oxygen barrier allows the tube to keep a strong vacuum, which provides consistent draw volumes.</li> <li>Continue to receive 24-month shelf life from date of manufacture.</li> </ul> <ul style="list-style-type: none"> <li>• Superior to PET</li> <li>• Comparable to Glass</li> </ul>
Durability	Fusion2 tubes are extremely robust and durable, making them resistant to breakage.	<ul style="list-style-type: none"> <li>Prevent expensive and inconvenient re-draws and provide increased safety for laboratory professionals.</li> </ul> <ul style="list-style-type: none"> <li>• Superior to Glass</li> </ul>
No Leachables/Extractables	Silicon-based barrier layer blocks leachables from migrating into the liquid samples.	<ul style="list-style-type: none"> <li>Protect the introduction of foreign components into your precious samples.</li> </ul> <ul style="list-style-type: none"> <li>• Superior to PET</li> </ul>

Target Markers	Data Points	EDTA	Plastic Cyto-Chex BCT	
		Initial Cells/μL	Day 14 Cells/μL	% Difference
CD3	12	1111	1071	3.6%
CD4	12	766	756	1.3%
CD8	12	329	289	12.3%
CD16/CD56	12	238	227	4.6%
CD19	12	127	119	6.2%
CD45	12	1522	1489	2.2%

**Table 1.** Percent difference of cell count recovery between day 14 Cyto-Chex BCT and initial EDTA for storage temperature study at 18 °C to 22 °C.

### Immunophenotyping Stability

Flow cytometry testing was completed on all HIV associated CD markers including CD3, CD4, CD8, CD16/56, CD19 and CD45 throughout the 14 days at 18 °C to 22 °C. For all studies and conditions in the protocol, flow cytometry testing was performed on the BD FACSCalibur™ with Multiset™ software V3.0.2 using 4-color BD Multitest reagents and a lyse/no-wash sample preparation procedure. Immunophenotypic analysis performed on peripheral blood samples stored in Fusion2 tubes provides the same results as when performed on fresh specimens as shown in Table 1.

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