



Human B Cells (HBC) Specification Sheet

Lifeline’s Human B Cells (HBC) provide a source of human antibody producing cells. HBC contain B cells from the circulation with a variety of antibody specificities. HBC are used for antibody production, studies of antigen presentation function and many other facets of immunology.

Lifeline’s HBC are cryopreserved immediately following purification from Human Peripheral Blood Monocyte Cells. Our HBC are quality tested via flow cytometry to ensure proper expression of CD19 and depletion of undesired cell types. HBC express CD19 but lack CD3, CD14 or CD56.

CELL FEATURES:	
•	HBC are cryopreserved upon isolation and purification.
•	HBC are extensively tested for quality and optimal performance.
•	Lifeline guarantees performance and quality.

Quality Testing for Guaranteed Consistency and Reproducible Results

Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates extensive quality assurance in every production run. Exacting standards and production procedures ensure consistent performance.

HUMAN B CELLS-NEGATIVELY SELECTED ARE TESTED FOR:	
• Cell Count	≥5 × 10 ⁶ cryopreserved cells per vial
• Cell Viability	Minimum 80% viability when thawed from cryopreservation
• Sterility Testing	Negative for mycoplasma Negative for bacterial and fungal growth
• Virus Testing	Negative for HIV-1, HIV-2, HBV, and HCV by PCR
• Specific Staining	≥ 80% Positive for CD19, Report Result for CD14, CD56, CD3,

To place an order, please visit lifelinecelltech.com or call technical and customer service at 877.845.7787.

The Lifeline® Guarantee

Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. All donated tissues have been obtained under proper informed consent. If Lifeline's products do not meet our posted performance and quality standards, we will replace them at no charge or provide a full refund. Upon request, Lifeline will provide lot specific QC test results, material safety data sheets, and certificates of analysis. See complete guarantee/warranty statement at lifelinecelltech.com or contact your Lifeline representative for more information.

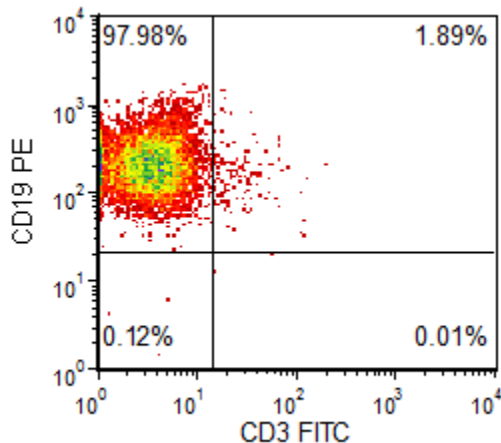
Safety Statement

This product is **For Research Use Only**. This product is not approved for human or veterinary use, or for use in *in vitro* diagnostic or clinical procedures.

Lifeline recommends storing cryopreserved vials in liquid nitrogen vapor phase. Handle cryopreserved vials with caution. Always wear eye protection and gloves when working with cell cultures. Aseptically vent any nitrogen from cryopreserved vials in a biosafety cabinet prior to thawing the vials in a water bath. If vials must be stored in liquid phase, the vials should be transferred to vapor phase storage or -80°C for up to 24 hours prior to being thawed.

PRODUCT INFORMATION:

Part #	Description
HC-0005	HBC, Human B Cells, Primary – $\geq 5 \times 10^6$ cells per vial



Left: An example of a flow cytometry dot plot showing that Human B Cells are positive for CD19 and negative CD3.

Call Lifeline Technical Service and Sales at 877.845.7787
or visit lifelinecelltech.com for more information

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