



Human T Cells (HTC) Specification Sheet

Lifeline’s Human T Cells (HTC) are purified from healthy donors and ready to use in studies of T cell biology. HTC can respond to mitogens or anti-CD3 antibodies with robust proliferation and secretion of interferon- γ , tumor necrosis factor α and interleukin-6.

Lifeline’s HTC are cryopreserved immediately after isolation and purification to ensure preservation of all circulating T cell subpopulations and antigen specificities. Our HTC are quality tested via flow cytometry to ensure depletion on undesired cell types and are typically $\geq 80\%$ CD3 positive. Lifeline’s HTC are positive for CD3 and contain both CD4 and CD8 subsets. Lifeline’s HTC are negative for other lineage markers such as CD14, CD19 and CD56.

CELL FEATURES:	
•	HTC are cryopreserved upon isolation and purification.
•	HTC 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 T CELLS ARE TESTED FOR:	
• Cell Count	$\geq 5 \times 10^6$ 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	$\geq 80\%$ Positive for CD3, Report result for CD14, CD19, CD11c

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.

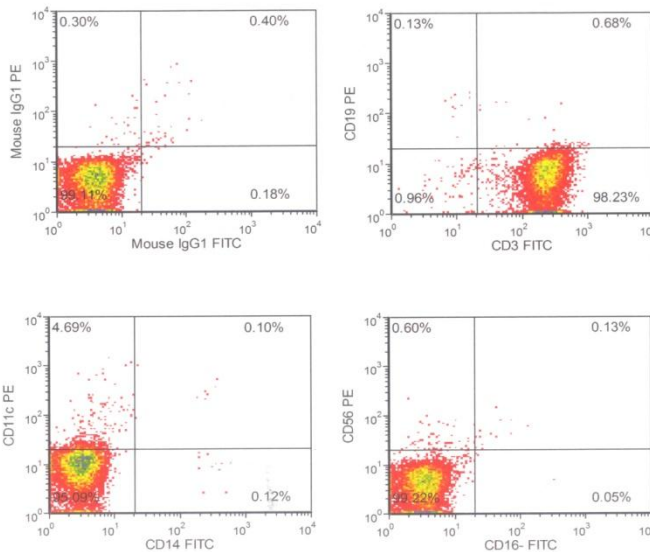
Safety Statement

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-0004	HTC, Human CD3 + T Cells – $\geq 5 \times 10^6$ cells per vial



Left: An example of flow cytometry dot plots showing that Human CD3+ T Cells are positive for CD3, and negative for CD19, CD11c, CD14, CD56, and CD16.

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

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