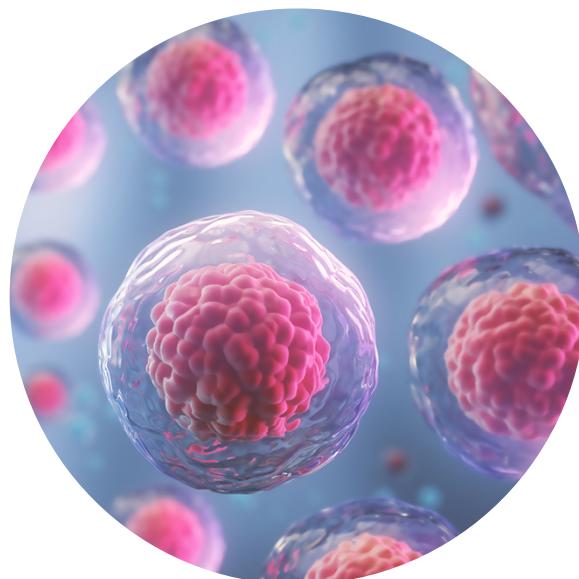


Normal Human CD4+ T Cells

HC-0028



This product is for Research Use Only.
This product is not approved for human or
veterinary use or for use in in vitro
diagnostics or clinical procedures.



LIFELINE[®]
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Better Solutions for
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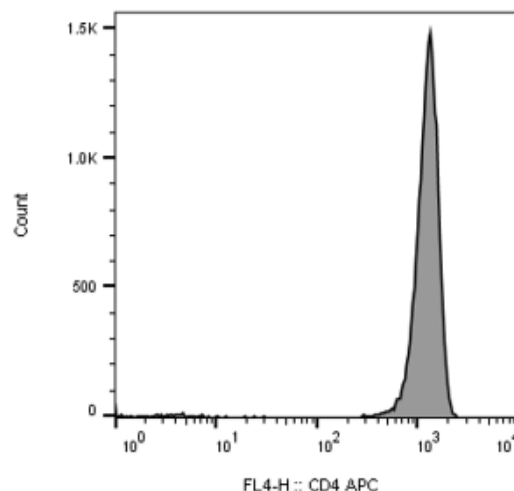
Product Description

Lifeline's Human CD4+ T Cells provide an ideal culture model for the study of immunology. Lifeline's Human CD4+ T Cells are purified from leukapheresed peripheral blood using immunomagnetic negative selection.

Human CD4+ T Cells are cryopreserved directly after isolation to ensure optimal phenotype and the highest viability and plating efficiency. Our Human CD4+ T Cells are quality tested via flow cytometry to ensure enrichment of cells that highly express the CD4 marker.

Lifeline's CD4+ T Cells are maintained in a suspension culture. CD4+ T Cells will not proliferate under maintenance conditions.

Lifeline's CD4+ T cells are not exposed to antimicrobials or phenol red. Lifeline offers antimicrobials and phenol red; however, they are not required for eukaryotic cell proliferation. A vial of Gentamicin and Amphotericin B (GA [LS-1117](#)) is provided with the purchase of RPMI-1640 Medium Complete Kit ([LL-0066](#)) for your convenience.



T Cells after purification

CELL FEATURES:

- Human CD4+ Helper T Cells are cryopreserved at 5×10^6 cells per vial.
- Human CD4+ Helper T Cells are extensively tested for quality and optimal performance.
- Lifeline guarantees performance and quality.

HUMAN CD4+ HELPER T CELLS ARE TESTED FOR:

• Cell Count	Human CD4+ Helper T Cells $\geq 5 \times 10^6$ 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
• Flow Cytometry Analysis	> 80% CD4 Positive



Call Lifeline Technical Service and Sales at **877.845.7787**

Or visit lifelinecelltech.com for more information

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Part #	Description
HC-0028	Human CD4+ Helper T Cells, – 5 x 10 ⁶ cells per vial
LL-0066	RPMI 1640 Medium Complete Kit (RPMI 1640 Basal Medium, Fetal Bovine Serum, Gentamicin and Amphotericin B)
LM-0025	RPMI 1640 Basal Medium, 100 ml
LS-1012	Fetal Bovine Serum, LS-1012, 10 ml
LS-1117	GA Antimicrobial Supplement, 1.0 mL (Gentamicin 3.0 mg/mL, Amphotericin B 1.5 µg/mL)
LL-0078	CD4+ Pan T Cells, 5M System Complete Kit (includes LL-0066 + HC-0028)

Quality Tested 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.

The Lifeline Guarantee

Lifeline’s rigorous quality control ensures sterility and performance to standardized testing criteria. 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.

All donated tissues have been obtained under proper informed consent and adheres to the Declaration of Helsinki, The Human Tissue Act (UK), CFR Title 21, and HIPAA Regulations relative to obtaining and handling human tissue for Research Use.

Safety Statement

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 liquid nitrogen from cryopreserved vials by carefully loosening the vial cap 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.

§Lifeline defines positive expression as when greater than 80% for CD4 of the cell population expresses that cell marker.



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