

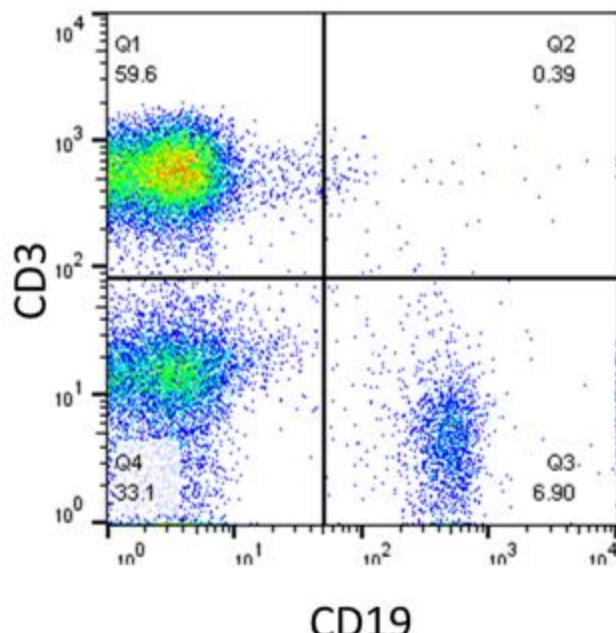
## Product Description

Lifeline's Human Peripheral Blood Mononuclear Cells (PBMC) provide an ideal culture model for the study of immunology, autoimmune disorders, infectious diseases, hematologic malignancies, vaccine development, high throughput screening, and transplant immunology. Lifeline's Human Peripheral Blood Mononuclear Cells are purified from leukapheresed peripheral blood using density centrifugation.

Human Peripheral Blood Mononuclear Cells are cryopreserved directly after isolation to ensure optimal phenotype and the highest viability. Our Human Peripheral Blood Mononuclear Cells are quality tested via flow cytometry to ensure proper expression of multiple markers of various hematopoietic lineage cells.

Lifeline's Peripheral Blood Mononuclear Cells are maintained in a suspension culture. PBMC will not proliferate under maintenance conditions.

Lifeline's Peripheral Blood Mononuclear Cells have not been exposed to antimicrobials or phenol red. Although antimicrobials are not required for eukaryotic cell proliferation, they are recommended to inhibit potential fungal or bacterial contamination of eukaryotic cell cultures. 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.



Flow cytometry data showing the ratios of CD3 positive T cells and CD19 positive B cells.

### Cell Features:

- Human Peripheral Blood Mononuclear Cells are cryopreserved at  $50 \times 10^6$  or  $25 \times 10^6$  cells per vial.
- Human Peripheral Blood Mononuclear Cells are extensively tested for quality and optimal performance.
- Lifeline® guarantees performance and quality.

Part #	Description
<a href="#">HC-0024</a>	Human Peripheral Blood Mononuclear Cells - $50 \times 10^6$ cells per vial
<a href="#">HC-0025</a>	Human Peripheral Blood Mononuclear Cells - $25 \times 10^6$ cells per vial
<a href="#">LL-0066</a>	RPMI 1640 Medium Complete Kit (RPMI 1640 Basal Medium, Fetal Bovine Serum, Gentamicin and Amphotericin B)
<a href="#">LM-0025</a>	RPMI 1640 Basal Medium, 100 ml
<a href="#">LS-1012</a>	Fetal Bovine Serum, LS-1012, 10 ml
<a href="#">LS-1117</a>	GA Antimicrobial Supplement, 1.0 mL (Gentamicin 3.0 mg/mL, Amphotericin B 1.5 µg/mL)

To place an order, please visit [lifelinecelltech.com](http://lifelinecelltech.com) or call us at **877.845.7787**

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<a href="#">LL-0074</a>	PBMC 50M System Complete Kit (includes LL-0066 + HC-0024)
<a href="#">LL-0075</a>	PBMC 25M System Complete Kit (includes LL-0066 + HC-0025)

### Normal Human Peripheral Blood Mononuclear Cells are tested for:

- Cell Count
  - HC-0024 Human Peripheral Blood Mononuclear Cells  $\geq 50 \times 10^6$  cells per vial
  - HC-0025 Human Peripheral Blood Mononuclear Cells  $\geq 25 \times 10^6$  cells per vial
- Cell Viability
  - Minimum 70% viability when thawed from cryopreservation
- Sterility Testing
  - Negative for mycoplasma, bacterial and fungal growth
- Virus Testing
  - Negative for HIV-1, HIV-2, HBV, and HCV by PCR
- Flow Cytometry Analysis
  - Tested for CD3, CD4, CD8, CD16, CD19, CD56, CD235a

### 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](http://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, CFR Title 21 part 1271, and HIPAA Regulations relative to obtaining and handling human tissue for Research Use.

### 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* diagnostics 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 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  $-80^{\circ}\text{C}$  for up to 24 hours prior to being thawed.

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