

Human Monocytes – Negatively Selected (HM-Neg) Specification Sheet

Lifeline’s Human Monocytes-Negatively Selected cells (HM-Neg) provide an ideal culture model for the study of macrophage biology. HM-Neg can be differentiated to macrophages and dendritic cells to study the many facets of macrophage and dendritic cell function.

Lifeline’s HM-Neg cells are purified from peripheral blood mononuclear cells by removing other cell types using immunomagnetic selection. This leaves the monocytes untouched and unaltered. Our HM-Neg cells are quality tested via flow cytometry to ensure proper expression of monocyte markers. Monocytes express CD14, CD11c and some monocytes express the Fc γ RIII receptor, CD16. The expression of CD3 (T cells), CD19 (B cells) and CD56 (NK cells) are also analyzed to ensure complete depletion of these cell types.

CELL FEATURES:

- HM-Neg are cryopreserved upon isolation and purification.
- HM-Neg 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 MONOCYTES-NEGATIVELY SELECTED 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	Donor tests negative for HIV-1, HIV-2, HBV, and HCV by PCR
• Specific Staining	$\geq 80\%$ Positive for CD11c Report % Positive for CD14

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.

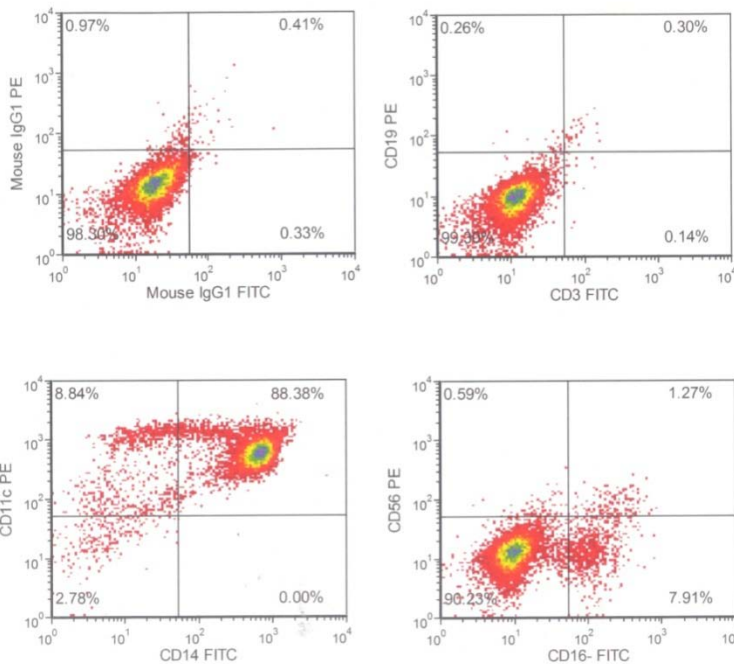
Safety Statement

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-0002	HM-Neg, Human Monocytes – Negatively Selected, Primary – 5 x 10 ⁶ cells per vial



Left: an example of flow cytometry dot plots showing that Human Monocytes-Negatively Selected are positive for CD11c and CD14, and negative for CD19, CD3, CD56. A small percentage of the population is positive for CD16.

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

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