

Human Pre-Adipocyte Cells

Lifeline's Human Pre-Adipocyte Cells provide an ideal culture model for the study of diabetes, obesity, metabolism, insulin sensitivity, and adipose biology. Human Pre-Adipocytes can be expanded in an undifferentiated state for future differentiation to mature Adipocytes. Lifeline's Human Pre-Adipocytes may also be differentiated down chondrogenic, and osteogenic lineages.

Lifeline's Human Pre-Adipocytes are cryopreserved as secondary cells* to ensure optimal phenotype and the highest viability and plating efficiency. Our cells are quality tested via flow cytometry to ensure proper expression of multiple markers of Human Pre-Adipocyte Cells. Lifeline's Human Pre-Adipocytes are positive[§] for integrin CD29; matrix receptors CD44 and CD105; and stromal cell-associated markers CD73, CD90, and CD166. Lifeline's Human Pre-Adipocyte Cells are negative[‡] for hematopoietic lineage markers CD14, CD31, CD34, and CD45.

CELL FEATURES:

- Human Pre-Adipocytes are isolated from human white adipose stromal tissue and are cryopreserved as secondary cells.
- Human Pre-Adipocytes are tested for the ability to differentiate to mature adipocytes, chondrocytes, and osteoblasts and meet Lifeline's specification 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 control in every production run. Exacting standards and production procedures ensure consistent performance.

HUMAN PRE-ADIPOCYTE STEM CELLS ARE TESTED FOR:

• Cell Count	Human Pre-Adipocyte – 1 x 10 ⁶ cryopreserved cells per vial
• Morphology	Normal morphology for 3 passages
• Cell Viability	Minimum 70% 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	Positive [§] for CD29, CD44, CD73, CD90, CD105, CD166 Negative [‡] for CD14, CD31, CD34, CD45

**Lifeline Technical Note: There are different and often contradictory terminologies used by cell culture companies to define the passage number of cells. Lifeline's designation of 'primary cells' are cells that have been isolated from tissue, plated onto culture vessels, expanded, harvested and cryopreserved. The term 'secondary' indicates that the cells have been isolated, plated and expanded in culture vessels twice before being harvested for cryopreservation.*

[§]Lifeline defines positive expression as when greater than 95% of the cell population expresses that cell marker.

[‡]Lifeline defines negative expression as when less than 2% of the cell population expresses that cell marker.

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

The Lifeline® Guarantee

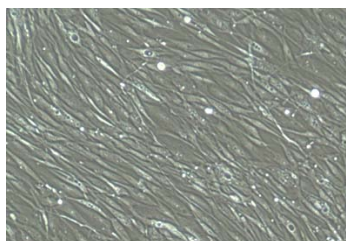
Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. All donated tissues have been obtained under proper informed consent and adhere to the Declaration of Helsinki, The Human Tissue Act (UK), CFR Title 21, and HIPAA Regulations relative to obtaining and handling human tissue for research use. 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 NOT liquid 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:	CATALOG NUMBER:
Human Pre-Adipocytes, Adult, Secondary – 1 x 10 ⁶ cells/vial	FC-0062
StemLife PA Complete Medium (StemLife PA Basal Medium, StemLife PA LifeFactors Kit)	LL-0058
AdipoLife Medium Complete Kit (AdipoLife Basal Medium, AdipoLife DiffFactor 1 and DiffFactor2)	LL-0050
ChondroLife™ Complete Chondrogenesis Medium	LM-0022
OsteoLife™ Complete Osteogenesis Medium	LM-0023
Alcian Blue Staining Kit	LL-0051
Oil Red O Staining Kit	LL-0052
2% Alizarin Red Stain	CM-0058
TrypKit™ Subculture Reagent Kit	LL-0013
KryoLife™ Cryopreservation Solution	LM-0015



Pre-Adipocytes, passage 4,
4 days after inoculation
with ~5,000 cells/cm² (100X)

Call Lifeline's Customer Service at 877.845.7787
or visit lifelinecelltech.com for more information

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