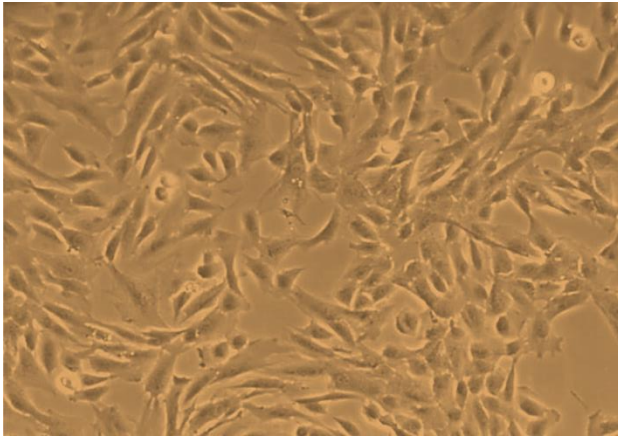
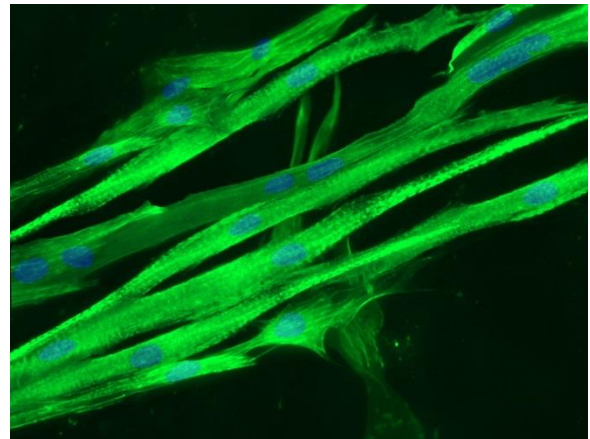


Human Skeletal Muscle Satellite Cells (HskMC) Specification Sheet



HSkMC, passage 4, 4 days after inoculation with 5,000 cells/cm² (100X)



HSkMC, 10 days post-differentiation and stained for sarcomeric alpha actinin (a specific skeletal muscle marker, green) with DAPI (a nuclear counter stain, blue) (400X)

CELL FEATURES:

- HSkMC are isolated from skeletal muscle.
- HSkMC are cryopreserved as tertiary cells*.
- Lifeline's HSkMC provide an ideal culture model for the study of muscle cell biology, diabetes, insulin receptor studies, muscle cell metabolism, muscle tissue repair, and myotube development.
- HSkMC are extensively tested for quality and optimal performance.
- Lifeline guarantees performance and quality.

HUMAN SKELETAL MUSCLE SATELLITE CELLS ARE TESTED FOR:

• Cell Count	500,000 cryopreserved cells per vial
• Proliferation and Morphology	Normal morphology for 3 passages
• Cell Viability	Minimum 70% viability when thawed from cryopreservation
• Sterility	Negative for mycoplasma Negative for bacterial and fungal growth
• Virus	Negative for HIV-1, HIV-2, HBV, and HCV by PCR
• Specific Staining	Positive for PAX3, PAX7, CD29, CD56 Negative for CD45

PART NUMBER	PRODUCT INFORMATION
FC-0091	HSkMC, Human Skeletal Muscle Satellite Cells, Tertiary – 500,000 cells per vial
LL-0069	StemLife™ Sk Medium Complete Kit (StemLife Sk Basal Medium, StemLife Sk LifeFactors® Kit)
LS-1104	Antimicrobial Supplement: Gentamicin 30 µg/mL, Amphotericin B 15 ng/mL (Provided with purchase of LL-0069)
LM-0056	MyoLife™ Complete Myogenesis Differentiation Medium

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

Lifeline's Human Skeletal Muscle Satellite Cells

Lifeline's Human Skeletal Muscle Satellite Cells (HskMC) provide an ideal culture model for the study of muscle cell biology, diabetes, insulin receptor studies, muscle cell metabolism, muscle tissue repair, and myotube development. HskMC can be expanded in an undifferentiated state for future differentiation. Lifeline's HskMC may be differentiated down the following lineages: skeletal myogenesis, adipogenesis, and osteogenesis.

Lifeline's HskMC are cryopreserved as tertiary cells to ensure optimal phenotype and the highest viability and plating efficiency. Our HskMC are quality tested via flow cytometry to ensure proper expression of multiple markers of skeletal muscle satellite cells. Lifeline® has set parameters for quantification of marker expression. Lifeline's HskMC are positive for PAX3, PAX7, CD29, and CD56. Lifeline's HskMC are negative for CD45.

Lifeline's HskMC are not exposed to antimicrobials or phenol red when cultured in StemLife™ Sk Medium. Lifeline offers antimicrobials and phenol red; however they are not required for eukaryotic cell proliferation. A vial of Gentamicin and Amphotericin B (GA; LS-1104) is provided with the purchase of StemLife Sk Medium Complete Kit (LL-0069) for your convenience. The use of GA is recommended to inhibit potential fungal or bacterial contamination of eukaryotic cell cultures. Phenol Red (LS-1009) may be purchased, but is not required.

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.

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

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°C for up to 24 hours prior to being thawed.

**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 'tertiary' indicates that the cells have been isolated, plated, and expanded in culture vessels three times before being harvested for cryopreservation.*

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

Lifeline Cell Technology – 8415 Progress Drive, Suite T – Frederick, MD 21701

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