

AdipoLife™ Adipogenesis Medium Specification Sheet



AdipoLife Adipogenesis Medium

AdipoLife is a new medium optimized for the differentiation of adult human mesenchymal stem cells into adipocytes. AdipoLife contains no antimicrobials and no phenol red; components that can cause cell stress and “masking effects” that may influence experimental results (Lifeline® offers these traditional supplements; however they are not needed, or recommended, to achieve optimal cell performance).

AdipoLife Medium Components

AdipoLife is offered in a kit format composed of basal medium and associated supplements and differentiation factors called “DifFactors™.” This kit allows you to prepare fresh medium in your laboratory, extending shelf life and enhancing performance. AdipoLife Basal Medium is provided in a 100 mL bottle. The remaining DifFactors (growth factors and supplements) are packaged in a convenient gas-impermeable pouch for easy storage.

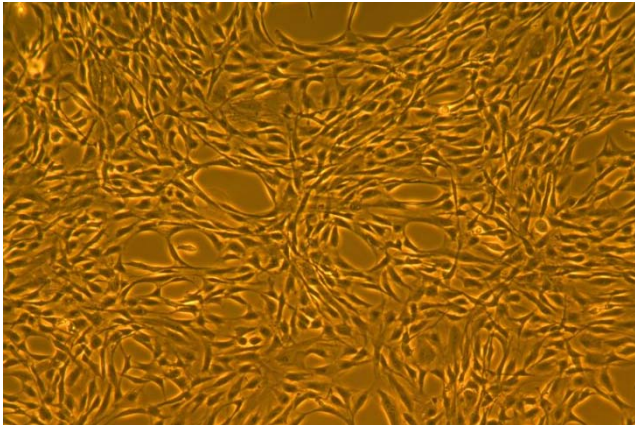
Product	Part No.	Volume	Final Concentration in Supplemented Medium	Storage
AdipoLife Adipogenesis Medium Complete Kit, (AdipoLife Basal Medium – 100 mL, AdipoLife DifFactor™ 1 and DifFactor 2)	LL-0050	Kit		2-8°C when prepared
AdipoLife Basal Medium	LM-0021	100 mL		-20°C
DifFactor 1	LS-1074	1.0 mL	Proprietary	-20°C
DifFactor 2	LS-1075	5 mL	Proprietary	-20°C
Other Recommended Products	Part No.	Unit		Storage
Human Mesenchymal Stem Cells-Adult (HMSC-Ad)	FC-0034	10 ⁶ Cells		-150°C
StemLife™ MSC Medium Complete Kit	LL-0034	Kit	StemLife MSC Basal Medium StemLife MSC LifeFactors® Kit	2-8°C when prepared
Oil Red O Staining Kit	LL-0052	Kit	Fixative Dehydration Solution Oil Red O Stain Stain Differential Solution	-20°C RT RT RT
TrypKit™	LL-0013	Kit	PBS 0.05% Trypsin/0.02% EDTA Trypsin Neutralizing Solution	-20°C
Optional Supplements	Part No.	Volume	Concentrations of Supplement	Storage
Phenol Red Supplement	LS-1009	1.0 mL	33 mM	RT
Antimicrobial Supplement: Penicillin, Streptomycin and Amphotericin B	LS-1011	1.0 mL	Penicillin 10,000 Units/mL Streptomycin 10,000 µg/mL Amphotericin B 25 µg/mL	-20°C

Quality Testing for Guaranteed Consistency and Reproducible Results

Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates ISO style quality assurance in every production run. Exacting standards and production procedures ensure lot-to-lot consistency. Every production lot of AdipoLife Adipogenesis Medium is extensively tested using Human Mesenchymal Stem Cells-Adult.

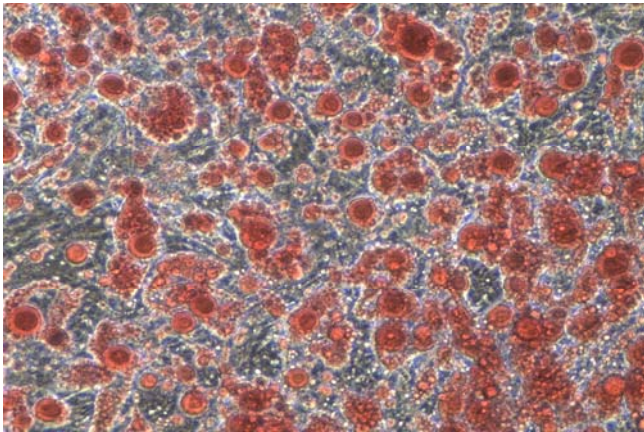
- Sterility Testing Negative for bacteria and fungal growth
- pH 7.6 +/- 0.3
- Cell Testing Rate of proliferation and morphology
- Osmolality 255 +/- 15 mOsm
- Endotoxin < 0.5 EU/mL

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

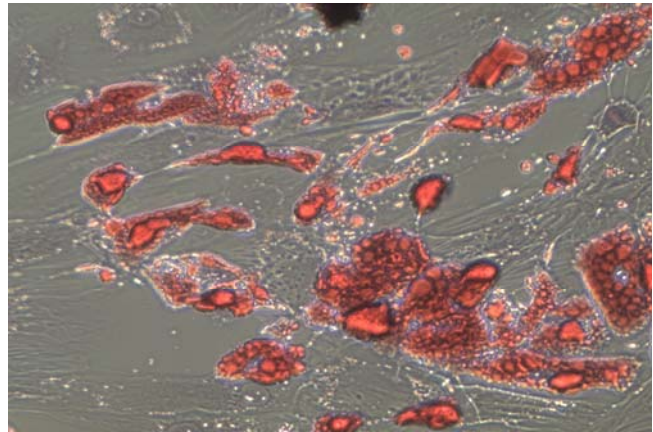


AdipoLife™ Adipogenesis Medium differentiates adult mesenchymal stem cells (left) into adipocytes. In comparisons with other commercially available medium, AdipoLife shows superior efficiency of differentiation.

Shown below: Human Mesenchymal Stem Cells-Adult; differentiated with AdipoLife (left) or a competitor (right). A greater percentage of cells differentiate into adipocytes when using AdipoLife than when using the leading competitor. Cells were fixed and stained with Oil Red O to visualize the lipid vesicles within the cells.



AdipoLife– 3 weeks, 200x



Competitor Kit – 3 weeks, 200x

The Lifeline® Guarantee

Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. 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* diagnostics or clinical procedures.

Call Lifeline Technical Service and Sales at [877.845.7787](tel:877.845.7787)
or visit lifelinecelltech.com for more information

Lifeline Cell Technology – 10 East Frederick Street – Walkersville, MD 21793

©2010 Lifeline Cell Technology. All Rights Reserved