

StemLife™PA Pre-Adipocyte Culture Medium Specification Sheet



StemLife PA Cell Culture Medium

StemLife PA is optimized for low serum (2%) culture of Human Pre-Adipocytes. StemLife PA supports the undifferentiated growth of these cells in a 2% serum environment at rates equal to or greater than comparable media supplemented with 2-10% FBS. StemLife PA contains no antimicrobials and no phenol red since these components 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.

StemLife PA Cell Culture Medium Components

StemLife PA is offered in a kit format composed of basal medium and associated supplements and growth factors called “LifeFactors®.” This kit allows you to prepare fresh medium in your laboratory, extending shelf life and enhancing performance. StemLife PA Basal Medium is provided in a light-protected 500 mL bottle. The remaining LifeFactors (growth factors and supplements) are packaged in a convenient gas-impermeable pouch for easy storage.

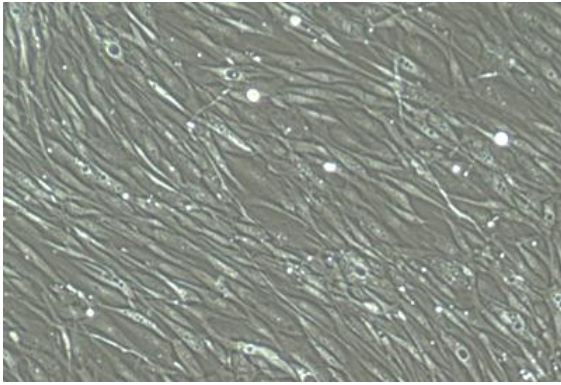
Product	Part No.	Volume To Add	Final Concentrations in Supplemented Medium	Storage
StemLife PA Medium Complete Kit, (StemLife PA Basal Medium – 480 mL, StemLife PA LifeFactors Kit)	LL-0058			2-8°C when prepared
StemLife PA Basal Medium	LM-0037	480 mL		2-8°C
StemLife PA LifeFactors Kit	LS-1084			-20°C
rh FGF basic LifeFactor	LS-1002	0.5 mL	5 ng/mL	-20°C
L-Glutamine LifeFactor	LS-1006	18.75 mL	7.5 mM	-20°C
Hydrocortisone Hemusuccinate LifeFactor	LS-1007	0.5 mL	1.0 µg/mL	-20°C
Ascorbic Acid LifeFactor	LS-1005	0.5 mL	50 µg/mL	-20°C
rh Insulin LifeFactor	LS-1004	0.5 mL	5 µg/mL	-20°C
FBS LifeFactor	LS-1012	10 mL	2%	-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 StemLife PA Medium is extensively tested using human fibroblasts.

- Sterility Testing Negative for bacteria and fungal growth
- pH 7.4 +/- 0.2
- Cell Testing Rate of proliferation and morphology
- Osmolality 270 +/- 10 mOsm
- Endotoxin < 0.5 EU/mL

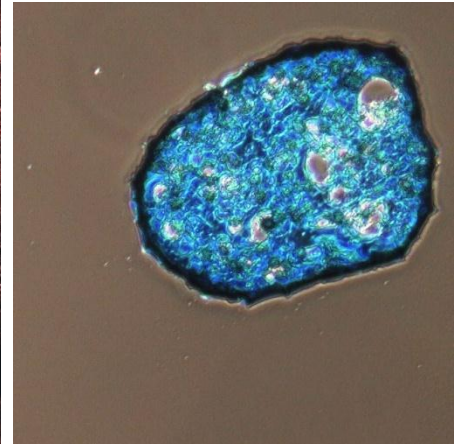
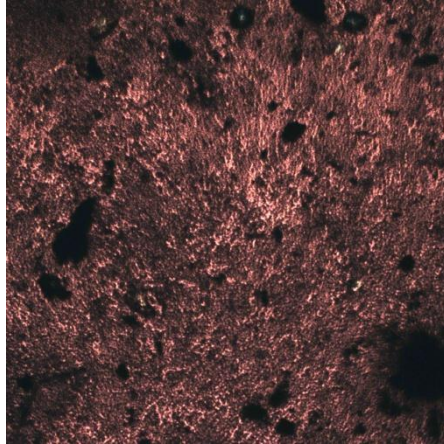
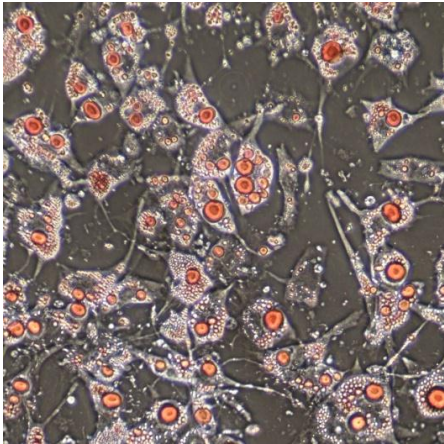
To place an order, please visit lifelinecelltech.com or call customer service at 877.845.7787.



StemLife™ PA medium grows pre-adipocytes in low serum conditions at rates that meet or exceed other commercially available serum-containing media while maintaining excellent cell morphology. In comparisons with other commercially available media, StemLife PA medium shows superior proliferation at different seeding densities.

Shown at left: Human Pre-Adipocytes, passage 4, 4 days after inoculation with $\sim 5,000$ cells/cm² (100X)

Shown below: Lifeline's human pre-adipocytes differentiated (from left to right) to adipocytes (stained with Oil Red O), osteoblasts (stained with Alizarin Red S), and chondrocytes (sliced and stained with Alcian blue) (100X)



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 at 877.845.7787 for more information.

Innovative Packaging Features

Lifeline has made significant improvements to traditional medium packaging:

- The specially designed shrink label works as a light barrier to help protect medium from light damage
- A barrier sleeve helps protect the medium from contaminants found in the water bath
- Lifeline is an environmentally friendly company. Our cell culture media bottles are recyclable and we ship all products with biodegradable packing material.

Safety Statement

This product is For Research Use Only. This product is not approved for human or veterinary use, for use in *in vitro* diagnostics, or clinical procedures.

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

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