

OsteoLife™ Complete Osteogenesis Medium

LM-0023



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
CELL TECHNOLOGY

Better Solutions for
Breakthrough Results

OsteoLife Complete Osteogenesis Medium

OsteoLife is a new medium optimized for the differentiation of Human Mesenchymal Stem Cells (HMSC) into osteocytes.

OsteoLife Complete Osteogenesis Medium contains no antimicrobials and no phenol red. Antimicrobials are not required, but are recommended during differentiation due to the duration of culture and the frequency of handling of the cultures. Antimicrobials and phenol red may be purchased separately from Lifeline.

OsteoLife Medium Components

OsteoLife is offered as a convenient and easy to use, fully-supplemented complete medium, stored frozen to extend shelf life.

Product	Part No.	Volume	Final Concentration in Supplemented Medium		Storage
OsteoLife Complete Osteogenesis Medium	LM-0023	100 mL	Proprietary		-20°C or 2-8°C once thawed
Other Recommended Products	Part No.	Unit	Components		Storage
Human Mesenchymal Stem Cells-Wharton's Jelly	FC-0020	0.5 x 10 ⁶ Cells			-150°C
Human Mesenchymal Stem Cells-Adipose	FC-0034	10 ⁶ Cells			-150°C
StemLife™ MSC Medium Complete Kit	LL-0034	Kit	StemLife Basal Medium StemLife MSC LifeFactors™ Kit		2-8°C when prepared
Human Mesenchymal Stem Cells-Bone Marrow	FC-0057	10 ⁶ Cells			-150°C
StemLife MSC-BM Medium Complete Kit	LL-0062	Kit	StemLife Basal Medium StemLife MSC-BM LifeFactors Kit		2-8°C when prepared
Human Pre-Adipocytes, Adult	FC-0062	10 ⁶ Cells			-150°C
FibroLife® S2 Medium Complete Kit	LL-0011	Kit	FibroLife Basal Medium FibroLife S2 LifeFactors Kit		2-8°C when prepared
2% Alizarin Red Stain	CM-0058	100 mL			RT
TrypKit™	LL-0013	Kit	PBS 0.05% Trypsin/0.02% EDTA Trypsin Neutralizing Solution		RT -20°C -20°C
Optional Supplements	Part No.	Volume	Concentrations of Supplement		Storage
Phenol Red Supplement	LS-1009	1 mL	33 mM		RT
Antimicrobial Supplement: Gentamicin and Amphotericin B (100X)	LS-1117	1 mL	Gentamicin Amphotericin B	3 mg/mL 1.5 µg/mL	-20°C



Call Lifeline Technical Service and Sales at **877.845.7787**

Or visit lifelinecelltech.com for more information

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

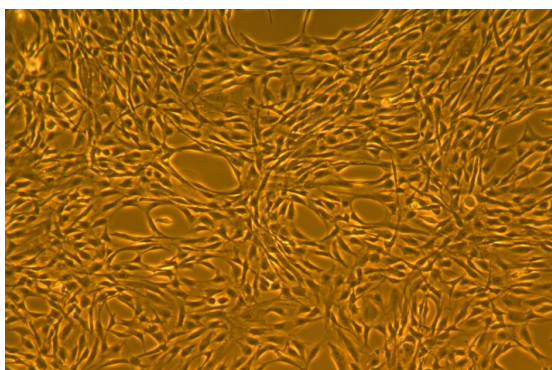
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Quality Testing for Guaranteed Consistency and Reproducible Results

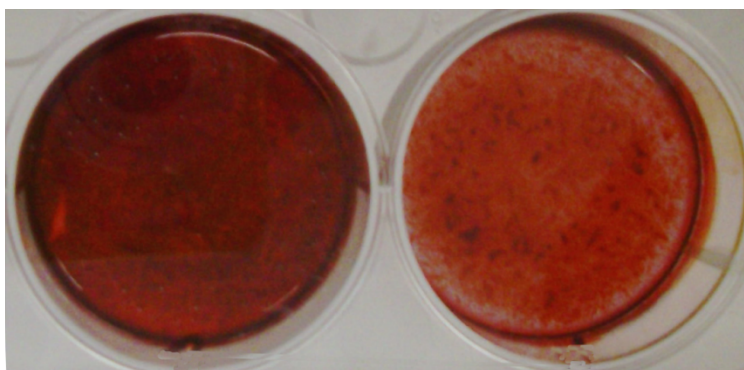
Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates ISO style quality assurance in every production run. Exacting standards and production procedures ensure lot-to-lot consistency. Every production lot of OsteoLife™ Complete Osteogenesis Medium is extensively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

- | | | | |
|---------------------|---|--------------|-----------------|
| • Sterility Testing | Negative for bacteria and fungal growth | • Osmolality | 330 +/- 15 mOsm |
| • pH | 7.4 +/- 0.3 | • Endotoxin | < 0.5 EU/mL |
| • Cell Testing | Rate of proliferation and morphology | | |

OsteoLife Complete Osteogenesis Medium differentiates HMSC-Ad, HMSC-BM, HMSC-Pre-Adipocytes, and HMSC-WJ into osteocytes. In comparisons with commercially available media, OsteoLife shows superior efficiency of differentiation as is demonstrated by the greater deposit of calcium.



HMSC-Ad



OsteoLife

Competitor osteogenesis kit

Shown above, left: HMSC-Ad, passage 4, 4 days after inoculation with approximately 4,500 cells/cm² (100X).

Shown above, middle: HMSC-Ad differentiated into Osteocytes using OsteoLife and stained with Lifeline's Alizarin Red Stain to visualize the calcium deposition, post 3 weeks differentiation, (1X).

Shown above, right: HMSC-Ad differentiated into Osteocytes using a competitor osteogenesis differentiation kit and stained with Lifeline's Alizarin Red Stain to visualize the calcium deposition, post 3 weeks differentiation, (1X).

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.



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