Specification Sheet

ChondroLife™ Complete Chondrogenesis Medium

LM-0022



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.





Better Solutions for Breakthrough Results



ChondroLife Complete Chondrogenesis Medium

ChondroLife is an optimized medium for the differentiation of Human Mesenchymal Stem Cells (HMSC) into chondrocytes.

ChondroLife Complete Medium Components

ChondroLife Complete Chondrogenesis Medium is offered as a convenient and easy to use, fully-supplemented complete medium; stored frozen to extend shelf life. ChondroLife 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.

Product	Part No.	Volume	Final Concentration in Supplemented Medium	Storage
ChondroLife Complete Chondrogenesis Medium	<u>LM-0022</u>	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 (HMSC-WJ)	<u>FC-0020</u>	0.5 x 10 ⁶ C	ells	-150°C
Human Mesenchymal Stem Cells-Adipose (HMSC-Ad)	<u>FC-0034</u>	10 ⁶ Cells		-150°C
StemLife™ MSC Medium Complete Kit	<u>LL-0034</u>	Kit	StemLife Basal Medium StemLife MSC LifeFactors™ Kit	2-8°C when prepared
Human Mesenchymal Stem Cells-Bone Marrow (HMSC-BM)	<u>FC-0057</u>	10 ⁶ Cells		-150°C
StemLife MSC-BM Medium Complete Kit	<u>LL-0062</u>	Kit	StemLife Basal Medium StemLife MSC-BM LifeFactors Kit	2-8°C when prepared
Human Pre-Adipocytes, Adult (HMSC-Pre-Adipocyte)	<u>FC-0062</u>	10 ⁶ Cells		-150°C
FibroLife™ S2 Medium Complete Kit	<u>LL-0011</u>	Kit	FibroLife Basal Medium FibroLife S2 LifeFactors Kit	2-8°C when prepared
Alcian Blue Staining Kit	<u>LL-0051</u>	Kit	Fixative Stabilizer Solution, Alcian Blue Stain Wash Solution	-20°C RT, RT RT
TrypKit™	<u>LL-0013</u>	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	<u>LS-1117</u>	1 mL	Gentamicin 3 mg/mL Amphotericin B 1.5 μg/mL	-20°C



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Osmolality

Endotoxin

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 ChondroLife™ Complete Chondrogenesis Medium is extensively tested using Human Mesenchymal Stem Cells-Adipose.

- Sterility Testing Negative for bacterial and fungal growth
- pH
- 7.6 +/- 0.3
- Cell Testing Rate of proliferation and morphology

ChondroLife Complete Chondrogenesis Medium differentiates HMSC-Ad, HMSC-BM, HMSC-Pre-Adipocytes, and HMSC-WJ into chondrocytes. In comparisons with commercially available medium, ChondroLife shows superior efficiency of differentiation as is demonstrated by the greater deposit of sulfated proteoglycans.



HMSC-Ad

Competitor chondrogenesis kit

285 +/- 15 mOsm

< 0.5 EU/mL

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 Chondrocytes using ChondroLife and stained with Lifeline's Alcian Blue Staining Kit to visualize the proteoglycan deposition, post 3 weeks differentiation, (100X). *Shown above, right*: HMSC-Ad differentiated into Chondrocytes using a competitor chondrogenesis differentiation kit and stained with Lifeline's Alcian Blue Staining Kit to visualize the proteoglycan deposition, post 3 weeks differentiation, post 3 w

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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