

AdipoLife™ DfKt™-2 Adipogenesis Medium Specification Sheet



AdipoLife DfKt-2 Adipogenesis Medium

AdipoLife DfKt-2 is a new Lifeline medium formulated to induce the adipogenic differentiation of Human Mesenchymal Stem Cells (HMSC) derived from bone marrow (BM) and Wharton's Jelly (WJ).

AdipoLife Basal 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.

AdipoLife Medium Format

AdipoLife is offered in a kit format composed of basal medium and a combined solution of differentiation factors called DifFactor™ 3. This kit format 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.

Product	Part No.	Volume	Components	Storage
AdipoLife DfKt-2 Adipogenesis Medium Complete Kit (AdipoLife Basal Medium, AdipoLife DifFactor 3)	LL-0059			2-8°C when prepared
AdipoLife Basal Medium	LM-0021	100 mL		-20°C
DifFactor 3	LS-1083	10 mL	rh Insulin, Indomethacin 3-Isobutyl-1-Methylxanthine, Dexamethasone, Horse Serum (5% final conc.), L-Glutamine, Ascorbic Acid	-20°C

Other Recommended Products	Part No.	Unit	Components	Storage
Human Mesenchymal Stem Cells-Wharton's Jelly (HMSC-WJ)	FC-0020	0.5 x 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 (HMSC-BM)	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
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	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 (Provided with purchase of LL-0034, or LL-0062)	LS-1104	0.5 mL	Gentamicin 30 mg/mL Amphotericin B 15 µg/mL	-20°C

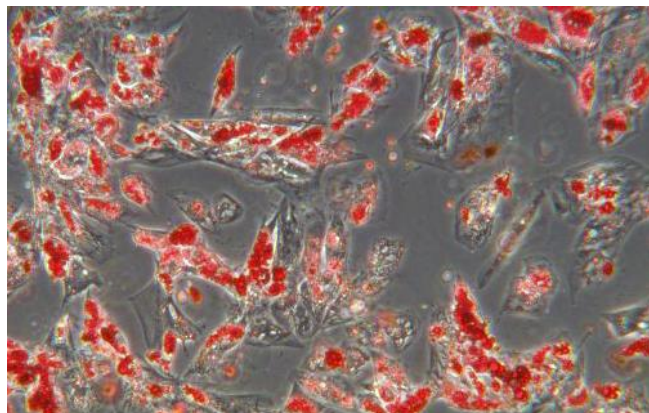
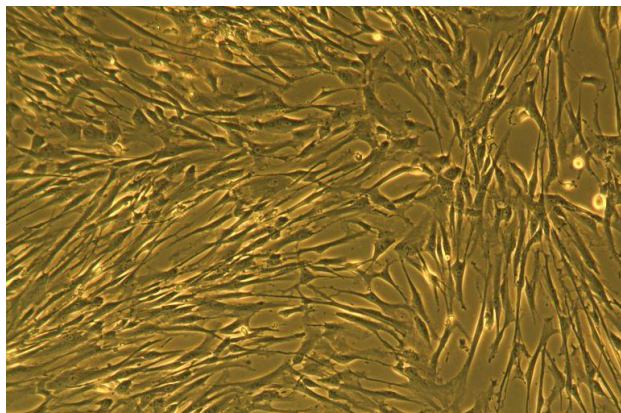
To place an order, please visit lifelinecelltech.com or call customer service at 877.845.7787.

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™ DfKt™-2 Adipogenesis Medium is extensively tested using Human Mesenchymal Stem Cells.

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|---------------------|---|--------------|-----------------|
| • Sterility Testing | Negative for bacteria and fungal growth | • Osmolality | 255 +/- 15 mOsm |
| • pH | 7.6 +/- 0.3 | • Endotoxin | < 0.5 EU/mL |
| • Cell Testing | Adipogenesis of HMSC | | |

AdipoLife DfKt-2 Adipogenesis Medium differentiates adult mesenchymal stem cells into adipocytes. AdipoLife DfKit-2 shows efficient differentiation as is demonstrated by the accumulation of lipid vesicles.



Shown above, left: HMSC-WJ, passage 3, 5 days after inoculation with 5,000 cells/cm² (100X).

Shown above, right: HMSC-WJ differentiated into Adipocytes using AdipoLife DfKt-2 and stained with Lifeline's Oil Red O Lipid Staining Kit, post 4 weeks differentiation, (200X).

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 at 877.345.7787 for more information.

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 Technical Service and Sales at 877.845.7787
or visit lifelinecelltech.com for more information

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