

DermaLife® K Complete Serum-Free Keratinocyte Culture Medium Specification Sheet



DermaLife K Complete Medium

DermaLife K Complete Medium is a fully supplemented frozen medium optimized for the culture of human keratinocytes; offering ease of use and an extended shelf life of up to two years. Having the same formula as our DermaLife K Medium Kit, DermaLife K Complete supports the growth of keratinocytes for at least 15 population doublings. Our medium 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. The presence of slight precipitation may be seen after thawing frozen media; however it will not affect Lifeline’s guaranteed cell performance.

Product	Part No.	Volume	Storage	
DermaLife K Complete Medium	LM-0027	500 mL	-20°C until ready to use. Thaw and store at 2-8°C for up to 1 month.	
Components of DermaLife K Complete Cell Culture Medium				
L-Glutamine		6 mM		
Extract P™		0.4%		
(-)-Epinephrine-(+)-Bitartrate		1.0 µM		
rh TGF-α		0.5 ng/mL		
Hydrocortisone Hemisuccinate		100 ng/mL		
rh Insulin		5 µg/mL		
Apo-Transferrin		5 µg/mL		
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

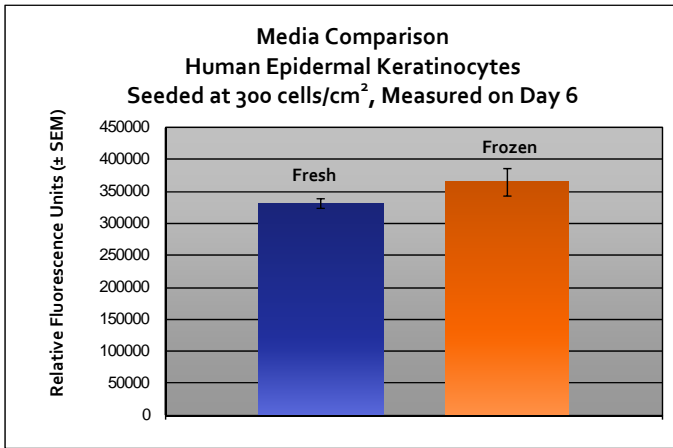
Quality Testing for Guaranteed Consistency and Reproducible Results

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 DermaLife K Medium is extensively tested using normal human keratinocytes.

- Sterility Testing Negative for bacteria and fungal growth
- pH 7.5 +/- 0.3
- Cell Testing Rate of proliferation and morphology
- Osmolality 310 +/- 15 mOsm
- Endotoxin ≤ 2 EU/mL

For orders and customer support in Europe:

CellSystems® Biotechnologie Vertrieb GmbH . Langelier Ring 5 . 53842 Troisdorf, Germany
Phone: +49 (0)2241 25515-0 . Fax: +49 (0)2241 25515-30 . info@cellsystems.de . www.cellsystems.de

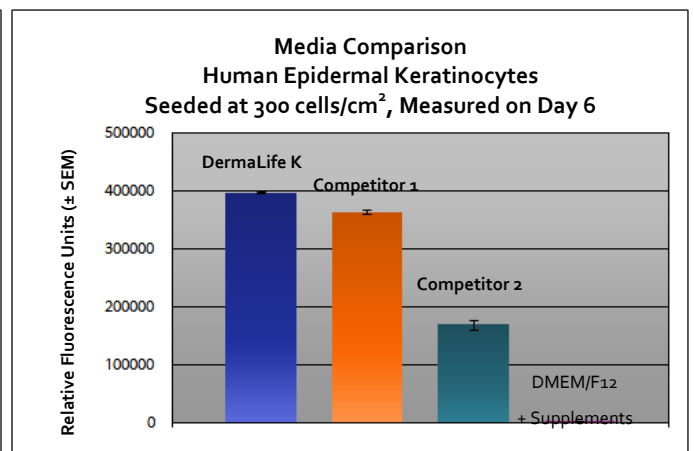
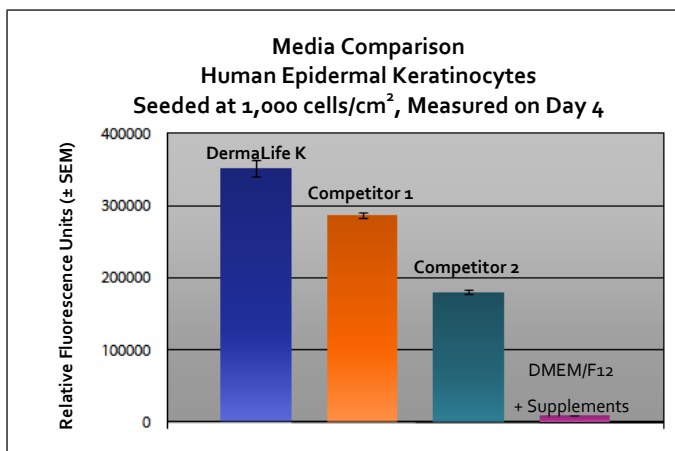


DermaLife® K Serum-Free Medium grows human epidermal keratinocytes through at least 15 population doublings at rates that meet or exceed other commercially available serum-free media while maintaining excellent cell morphology. In comparisons with other commercially available media, DermaLife K shows superior proliferation at different seeding densities.

Shown Left and Below: human keratinocytes inoculated at the stated density in 24-well plates and incubated for 2 hours with rezasurin solution on Day 4, Day 6 or Day 7. Fluorescence was measured at 530 nm excitation/580 nm emission. Higher fluorescence represents greater proliferation

Left: Freshly prepared DermaLife K versus DermaLife K Complete Medium after 1 year of frozen storage.

Below: Original product comparison versus the competition.



The Lifeline® Guarantee

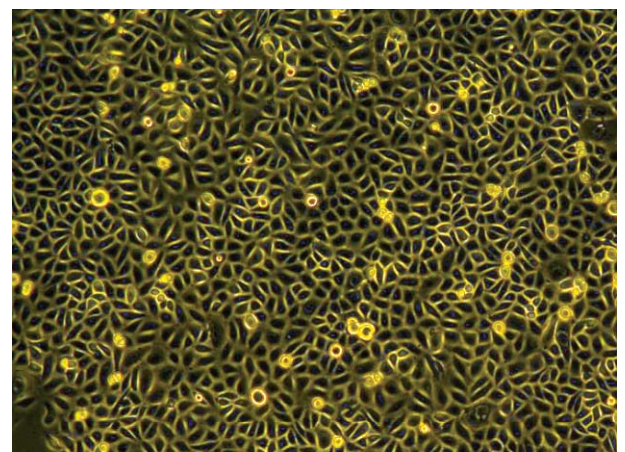
Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. If Lifeline's products do not meet our posted performance and quality standards, we will replace them at no charge or provide a full refund. Upon request CellSystems® will provide lot-specific QC test results, material safety data sheets and certificates of analysis. See complete guarantee/warranty statement at lifelinecelltech.com or contact your CellSystems® representative for more information.

Innovative Packaging Features

- Shrink label protects medium from light damage.
- A barrier sleeve helps protect from water bath contaminants
- Eco-friendly - media bottles are recyclable.
- Frozen and completely supplemented gives ease of use and extended shelf life.

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.



Human keratinocytes, passage 2, 5 days after inoculation with 2,500 cells/cm², 100X.

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