

Get more life out of your cells

GIBCO® EpiLife® serum-free cell culture medium

- Defined, animal origin-free medium
- Extends the *in vitro* lifespan of primary cells up to two times compared to other serum-free media
- Ease of use with single-shot supplementation
- Ideal for the culture of keratinocytes and corneal epithelial cells

EpiLife® medium is a basal liquid culture medium containing 60 µM CaCl₂ and is intended for use in the routine culture of human epidermal keratinocytes or human corneal epithelial cells. Additional applications may include primary isolation of keratinocytes or corneal epithelial cells. EpiLife® medium greatly extends the *in vitro* lifespan of human epidermal keratinocytes compared to other serum-free media (Figure 1).

Invitrogen offers a wide array of GIBCO® products for keratinocyte culture, including products that are free of any animal-derived components such as bovine pituitary extract (BPE), serum, or other components that are typically purified from animal sources. We refer to these products as being “animal origin-free” or “animal product-free” and use the abbreviations “AOF” and “APF” to identify them (Table 1).

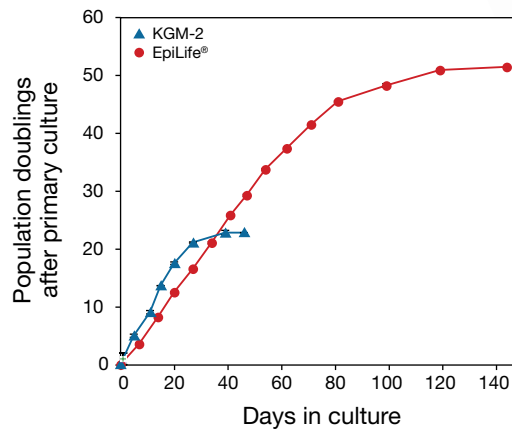


Figure 1—Normal neonatal human keratinocytes (Cat. no. C0015C) were grown in EpiLife® medium and in a keratinocyte medium from a leading competitor. Cultures grown in EpiLife® medium demonstrated population doublings over an extended period compared to cells grown in the competitor’s medium.

Table 1—Products for extended-lifespan culture of human keratinocytes.

	Culture environment		
	Animal origin-free	Chemically defined	BPE-containing
Cells	HEKn-AOF or HEKa-AOF	HEKn or HEKa	HEKn or HEKa
Basal medium	EpiLife®	EpiLife®	EpiLife®
Growth supplement	Supplement S7	EDGS	HKGS
Reagents	rTE, DTI, GA, Synth-a-Freeze™, Coating Matrix Kit	TE, DTI, GA, Synth-a-Freeze™	TE, TN, GA, Synth-a-Freeze™



Primary Cell Culture

Ordering information

Product	Quantity	Cat. no.
EpiLife® Medium, for further manufacturing	500 ml	U-M-EPI-500
EpiLife® Medium, w/o calcium	500 ml	M-EPIcf-500
EpiLife® Medium, w/o calcium and phenol red	500 ml	M-EPIcf/PRF-500
EpiLife® Medium, with 60 µM calcium	500 ml	M-EPI-500-CA
Human Epidermal Keratinocytes, neonatal (HEKn-APF) cells	vial (5 × 10 ⁵ viable cells)	C-020-5C
Human Epidermal Keratinocytes, adult (HEKa-APF) cells	vial (5 × 10 ⁵ viable cells)	C-021-5C
Human Epidermal Keratinocytes, neonatal (HEKn) cells	vial (5 × 10 ⁵ viable cells)	C-001-5C
Human Epidermal Keratinocytes, adult (HEKa) cells	vial (5 × 10 ⁵ viable cells)	C-005-5C
Human Keratinocyte Growth Supplement (HKGS)	5 ml	S-001-5
Human Keratinocyte Growth Supplement Kit (HKGS Kit)	1 kit	S-001-K
EpiLife® Defined Growth Supplement (EDGS)	5 ml	S-012-5
Supplement S7 (chemically defined, animal origin-free)	5 ml	S-017-5
Coating Matrix Kit	1 kit	R-011-K
Defined Trypsin Inhibitor	100 ml	R-007-100
Gentamicin/Amphotericin B Solution (antibiotic)	10 x 1 ml	R-015-10
Recombinant Trypsin/EDTA Solution	50 ml	R-009-50
Trypsin/EDTA Solution	100 ml	R-001-100
Trypsin/Neutralizer Solution	100 ml	R-002-100
Synth-a-Freeze™ Medium	50 ml	R-005-50

Visit www.invitrogen.com/primarycells to see the entire range of primary cells and optimized media from Invitrogen Cell Culture.