

## EpiLife™ Serum Free Medium

Product Code **E 0151**

Storage Temperature 4 °C

### Product Description

EpiLife™ is a sterile, liquid tissue culture medium intended for use as one component in a complete culture environment for the growth of normal human epidermal keratinocytes (see figures 1 and 2). The basal medium contains essential and non-essential amino acids, vitamins, other organic compounds, trace minerals, and inorganic salts. It does not contain antibiotics, antimycotics, hormones, growth factors or proteins. This medium is HEPES and sodium bicarbonate buffered and has a pH of 7.4 when equilibrated in an incubator with 5% CO<sub>2</sub>/95% air.

EpiLife is prepared with calcium chloride. To fully support plating and long term proliferation of human keratinocytes, EpiLife must be supplemented with calcium, selected hormones and growth factors. A growth supplement (Keratinocyte Medium Supplement, Product Code K 2007 or BPE-free Keratinocyte Medium Supplement, Product Code K 3136) is also required to facilitate the growth of normal human keratinocytes.

### Intended Use

**For R&D use only. Not for drug, household or other uses.**

### Preparation Instructions

1. Thaw the Keratinocyte Medium Supplement (Product Code K 2007 or BPE-free Keratinocyte Medium Supplement, Product Code K 3136) according to any instructions provided with this product.
2. Gently swirl the bottle of supplement. Avoid splashing the supplement into the cap of the bottle or causing the supplement to foam.
3. Obtain one bottle of EpiLife medium. Wipe the outside of the containers with disinfecting solution such as 70% ethanol or isopropanol.
4. Transfer the entire contents of the bottle of supplement to the bottle of EpiLife medium using sterile technique in a laminar flow culture hood. For optimal growth of keratinocytes, we recommend that the entire contents of the Keratinocyte Medium Supplement (Product Code K 2007 or BPE-free Keratinocyte Medium Supplement, Product Code K 3136) be added to a 500 ml bottle of EpiLife medium. Doing so will result in a calcium concentration in EpiLife medium of 0.06 mM.
5. Tightly cap the bottle of supplemented medium and swirl the contents to ensure a homogeneous solution. Avoid causing the medium to foam.

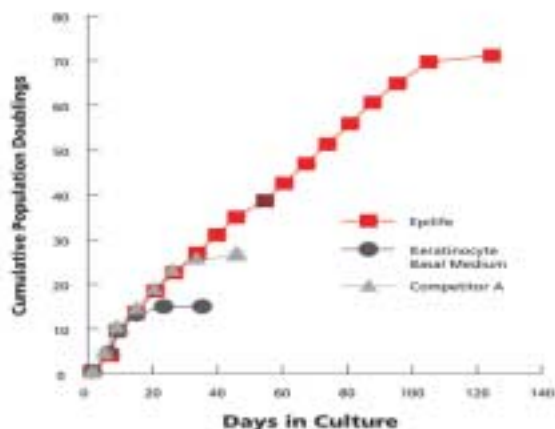
### Storage/Stability

Store at 4 °C. Freezing is **not** recommended. **Protect from light.** Several components of the medium are light-labile and

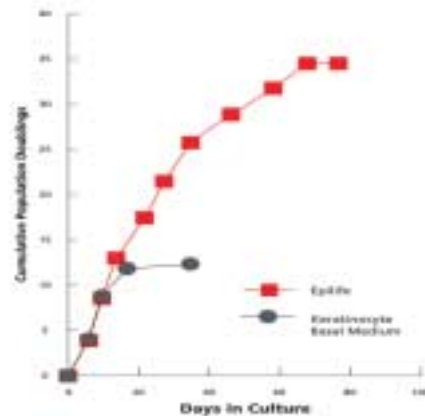
## Product Information

should not be exposed to light for lengthy periods of time. Prior to use, the medium may be warmed to 37 °C. **Do not exceed 37 °C.** When stored at 4 °C in the dark, medium which has not been supplemented is stable until the expiration date on the label. Supplemented EpiLife medium should be stored at 4 °C. Storage should not exceed 1 month. Freezing is **not** recommended.

(**Figure 1.** Cryopreserved primary cultures of neonatal keratinocytes were thawed and plated into supplemented basal medium. The cells were grown to the end of their lifespan as described in the Life Science Quarterly, Vol. 1, pp. 4-7, July 2000.)



(**Figure 2.** Cryopreserved primary cultures of adult keratinocytes were thawed and plated into supplemented basal medium. The cells were grown to the end of their lifespan as described in the Life Science Quarterly, Vol. 1, pp. 4-7, July 2000.)



**Precautions and Disclaimer**

MSDS is available upon request at [sigma-aldrich.com](http://sigma-aldrich.com).

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