



## Keratinocyte Growth Supplement (KGS)

Catalog Number: 2152

### Product Description

Keratinocyte Growth Supplement (KGS) is a medium supplement designed for the optimal growth of normal human keratinocytes *in vitro*. It is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal human keratinocytes. The supplement is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced growth environment that maximally promotes the growth of normal human keratinocytes *in vitro*. The supplement is designed as an additive for Keratinocyte medium (KM, Cat. No. 2101) and should be used in conjunction with that medium.

### Components

KGS is packaged in the quantity of supplement suited for a 500 ml bottle of KM. When a 500 ml bottle of KM is supplemented with KGS, the final concentrations of the supplement components per milliliter will be BSA 5 µg, transferrin 5 µg, BPE 50 µg, insulin 2.5 µg, FGF-2 5 ng, EGF 1ng, Epinephrine 500 ng, hydrocortisone 0.5 µg, Prostaglandin E<sub>2</sub> 10<sup>-8</sup> M and T<sub>3</sub> 30 nM

**Note:** Due to BPE in the growth supplement, formation of lipoproteins can cause precipitates to be present; the color may vary with different lots.

### Product Use

KGS is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

### Storage

Store KGS at -20°C before adding to neuronal medium.

### Shipping

Dry ice.

### Prepare for use

Thaw KGS at 37°C. Gently tilt the KGS tube several times during thawing to help the contents dissolve. Make sure the contents of the supplement are completely dissolved into solution before adding to the medium. Rinse the bottle and tubes with 70% ethanol, and then wipe to remove excess. Remove the cap, being careful not to touch the interior threads with fingers. Add KGS and other component (P/S solution) into medium in a sterile field, mix well and then the reconstituted medium is ready for use. Since several components of KM are light-labile, it is recommended that the medium not be exposed to light for lengthy periods of time. If the medium is warmed prior to use, do not exceed 37°C. When stored in the dark at 4°C, the reconstituted medium is stable for one month.

*Caution: If handled improperly, some components of the medium may present a health hazard. Take appropriate precautions when handling it, including the wearing of protective clothing and eyewear. Dispose of properly.*