



## Endothelial Cell Growth Supplement (ECGS)

Catalog Number: 1052

### Product Description

Endothelial Cell Growth Supplement (ECGS) is a medium supplement designed for the optimal growth of human primary microvascular endothelial cells *in vitro*. It is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal human microvascular endothelial cells. The supplement is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced growth environment that maximally promotes the growth of human primary microvascular endothelial cells *in vitro*. The supplement is designed as an additive for endothelial cell medium (ECM, Cat. No. 1001) and should be used in conjunction with that medium.

### Components

ECGS is packaged in the quantity of supplement suited for a 500 ml bottle of endothelial cell medium. When a 500 ml bottle of endothelial cell medium is supplemented with ECGS, the final concentrations of the supplement components per milliliter will be BSA 10  $\mu\text{g}$ , apo-transferrin 10  $\mu\text{g}$ , insulin 5  $\mu\text{g}$ , EGF 10 ng, FGF-2 2 ng, VEGF 2 ng, IGF-I 2 ng, hydrocortisone 1  $\mu\text{g}$  and retinoic acid  $10^{-7}$  M.

### Product Use

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

### Storage

Store the ECGS at  $-20^{\circ}\text{C}$  before adding to endothelial cell medium.

### Shipping

Dry ice.

### Prepare for use

Thaw ECGS at  $37^{\circ}\text{C}$ . Gently tilt the ECGS 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 ECGS and other components (FBS and P/S solution) into basal medium in a sterile field, mix well and then the reconstituted medium is ready for use. Since several components of endothelial cell medium 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  $37^{\circ}\text{C}$ . When stored in the dark at  $4^{\circ}\text{C}$ , 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.*