



## Urothelial Cell Growth Supplement (UCGS)

Catalog Number: 4352

### Product Description

Urothelial Cell Growth Supplement (UCGS) is a medium supplement designed for the optimal growth of normal human Urothelial Cells *in vitro*. It is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal human Urothelial Cells. The supplement is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced growth environment that maximally promotes the growth of normal human Urothelial Cells *in vitro*. The supplement is designed as an additive for Urothelial Cell medium (UCM, Cat. No. 4321) and should be used in conjunction with that medium.

### Components

UCGS is packaged in the quantity of supplement suited for a 500 ml bottle of UCM. When a 500 ml bottle of UCM is supplemented with UCGS, the final concentrations of the supplement components per milliliter will be BSA 10 µg, transferrin 5 µg, BPE 50 µg, insulin 2.5 µg, FGF-2 5 ng, 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

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

### Storage

Store UCGS at -20°C before adding to urothelial cell medium.

### Shipping

Dry ice.

### Prepare for use

Thaw UCGS at 37°C. Gently tilt the UCGS 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 UCGS 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 UCM 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.*