# **Cascade Biologics**™

invitrogen cell culture



### **LSGS**

## **Low Serum Growth Supplement**

Cat. no. S-003-10 5 ml

### **Product Description**

Low Serum Growth Supplement (LSGS) is a sterile, concentrated (50X) solution intended for use as one component in a complete culture environment for the growth of either normal human endothelial cells derived from large vessels or normal human dermal fibroblasts. LSGS is an ionically-balanced supplement containing fetal bovine serum, hydrocortisone, human epidermal growth factor, basic fibroblast growth factor, and For investigators who wish to vary the heparin. concentration of one or more of these components in their cultures, LSGS Kit contains separate aliquots of fetal bovine serum, hydrocortisone, human epidermal growth factor, basic fibroblast growth factor with heparin, as well as a vial of Gentamicin/Amphotericin solution. Use of Gentamicin/Amphotericin is optional. LSGS Kit or 10 ml bottle of LSGS is the correct amount of supplement for a 500 ml bottle of basal Medium 200, Medium 200PRF, or Medium 106. When a 500 ml bottle of basal medium is supplemented with LSGS or the components of the LSGS Kit, the final concentrations of the components in the supplemented medium are: fetal bovine serum, 2% v/v; hydrocortisone, 1 µg/ml; human epidermal growth factor, 10 ng/ml; basic fibroblast growth factor, 3 ng/ml; and heparin, 10 µg/ml.

### **Intended Use**

LSGS is intended for use in conjunction with Medium 200 and Medium 200PRF for the routine culture of normal human large vessel endothelial cells, and in conjunction with Medium 106 for the routine culture of normal human dermal fibroblasts. The LSGS Kit is designed for investigators who wish to vary the concentration of one or more of the components of LSGS in their cultures. Additional applications for both products may include primary isolation of endothelial cells or the primary isolation of fibroblasts from dermal tissue.

## **LSGS Kit**

# Low Serum Growth Supplement Kit

Cat. no. S-003-K

This product is for research use only. Not for use in animals, humans, or diagnostic procedures.

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

## Storage and Stability

LSGS and the LSGS Kit are stored at  $-20^{\circ}$  C at our facility and are shipped on dry ice. Upon receipt, the product should be stored at  $-20^{\circ}$  C in a freezer that is not self-defrosting. When stored at  $-20^{\circ}$  C the product is stable until the expiration date shown on the label.

After long term storage at -20° C, LSGS may contain a small amount of precipitate. This precipitate is formed from cold-insoluble material in the serum component of the LSGS and will not affect the performance of the product. A similar precipitate may be seen in the serum component of the LSGS Kit.

### **Thawing**

To thaw, place the product in a 37° C water bath or overnight at 4° C. If thawed in a water bath, do not leave the product at 37° C after the product has thawed. For instructions on adding LSGS or LSGS Kit to the appropriate basal medium, refer to the instructions that accompany the basal medium.

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