


Low Serum Growth Supplement (LSGS)

Catalog Numbers S-003-10 and S-003-K

Pub. No. MAN0001621 Rev. 3.0

 **WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from thermofisher.com/support.

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 heparin. For investigators who wish to vary the concentration of one or more of these components in their cultures, the 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. Each 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 mg/mL; human epidermal growth factor, 10 ng/mL; basic fibroblast growth factor, 3 ng/mL; and heparin, 10 mg/mL.

Contents and storage

Product	Cat. No.	Contents	Storage
Low Serum Growth Supplement	S-003-10	5 mL	<ul style="list-style-type: none"> Prior to shipping, product is stored at -20°C and shipped on dry ice. Upon receipt, store at -20°C in a non-self-defrosting freezer. When stored at -20°C, the product is stable until the expiration date shown on the label. <p>Note: 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.</p>
	S-003-K	Kit	

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.

Thawing

- For best practice, thaw product at refrigerated temperatures of $2-8^{\circ}\text{C}$ overnight. Avoid thawing the product at room temperature overnight.
- For rapid thawing, remove the hydrocortisone vial from the pouch and thaw the remaining components in a 37°C warm water bath

until the product is thawed. Avoid exposing the hydrocortisone vial to elevated temperatures.

- Once thawed, do not leave the product at 37°C .
- For instructions on adding LSGS or the LSGS kit to the appropriate basal medium, refer to the instructions that accompany the basal medium.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at www.thermofisher.com/us/en/home/global/terms-and-conditions.html. If you have any questions, please contact Life Technologies at www.thermofisher.com/support.



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For descriptions of symbols on product labels or product documents, go to thermofisher.com/symbols-definition.

The information in this guide is subject to change without notice.

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