


Human Large Vessel Endothelial Cell Basal Medium

formerly Medium 200 and Medium 200PRF

Catalog Number M-200-500, M-200PRF-500

Pub. No. MAN0001577 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](https://www.thermofisher.com/support).

Product description

Human Large Vessel Endothelial Cell Basal Medium (formerly Medium 200 and Medium 200PRF) are sterile filtered, liquid tissue culture media intended for use as one component in a complete culture environment for normal human large vessel endothelial cells. Human Large Vessel Endothelial Cell Basal Medium contain essential and non-essential amino acids, vitamins, other organic compounds, trace minerals, and inorganic salts. These media do not contain antibiotics, antimycotics, hormones, growth factors, or proteins. These media are HEPES and bicarbonate buffered and are designed for use in an incubator with an atmosphere of 5% CO₂/95% air. To support the plating and proliferation of human large vessel endothelial cells, these media must be supplemented with Low Serum Growth Supplement (LSGS, Cat. No. [S-003-10](#)) or Low Serum Growth Supplement Kit (Cat. No. [S-003-K](#)).

Contents and storage


| Contents | Cat. No. | Amount | Storage |
|---|------------------------------|--------|---|
| Human Large Vessel Endothelial Cell Basal Medium | M-200-500 | 500 mL | 4°C; Protect from light; Do not freeze ^[1,2] |
| Human Large Vessel Endothelial Cell Basal Medium, Phenol Red Free | M-200PRF-500 | 500 mL | |

^[1] When stored in the dark at 4°C, the product is stable until the expiration date on the label.

^[2] If the medium is warmed prior to use, do not exceed 37°C.

Intended use

Human Large Vessel Endothelial Cell Basal Medium is intended for use in the routine culture of normal human endothelial cells derived from large vessels. Human Large Vessel Endothelial Cell Basal Medium, Phenol Red Free is offered for investigators who wish to culture endothelial cells in the absence of phenol red. When supplemented with LSGS or LSGS Kit, these media will support the plating and proliferation of endothelial cells at culture densities between 2.5 x 10³ cells/cm² and 1 x 10⁵ cells/cm². Additional applications may include primary isolation of endothelial cells. 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.

Prepare Human Large Vessel Endothelial Cell Basal Medium supplemented with LSGS

Note: For information on LSGS (Cat. No. S-003-10), refer to the LSGS product sheet.

1. Thaw one bottle of LSGS. Take one bottle of medium from cold storage. Ensure that the caps of the vessels are tight.
2. Gently swirl the bottle of supplement. Avoid splashing the supplement into the cap of the bottle or causing the supplement to foam.
3. Wipe the outside of the containers with a disinfecting solution such as 70% ethanol or isopropanol.
4. Using sterile technique in a laminar flow culture hood, transfer the entire contents of the bottle of supplement to the bottle of Human Large Vessel Endothelial Cell Basal Medium or Human Large Vessel Endothelial Cell Basal Medium, Phenol Red Free.
5. Tightly cap the bottle of supplemented medium and swirl the contents to ensure a homogeneous solution. Avoid causing the medium to foam.

Once medium has been supplemented with LSGS, the supplemented medium should be stored in the dark at 4°C and should not be frozen. When stored in the dark at 4°C, the supplemented medium is stable for 1 month.

Prepare Human Large Vessel Endothelial Cell Basal Medium supplemented with LSGS Kit

Note: For information on LSGS Kit (Cat. No. S-003-K), refer to the LSGS Kit product sheet.

1. Thaw the frozen components of the LSGS Kit. Take one bottle of medium from cold storage. Ensure that the caps of the vessels are tight.
2. Gently swirl each component of the LSGS Kit. Avoid splashing the components into the caps of the bottles or causing any of the components to foam.
3. Wipe the outside of the containers with a disinfecting solution such as 70% ethanol or isopropanol.
4. Using sterile technique in a laminar flow culture hood, transfer the desired amount of each component of the LSGS Kit to the bottle of medium in the following order:
 - a. Fetal bovine serum
 - b. Recombinant human basic fibroblast growth factor/heparin
 - c. Hydrocortisone, recombinant human epidermal growth factor

Note: The addition of less than the entire amount of any component may affect the performance of the supplemented medium.

5. If antibiotics/antimycotics are desired, add the antibiotic/antimycotic solution included in LSGS Kit using the same technique as above.
6. Tightly cap the bottle of supplemented medium and swirl the contents to ensure a homogeneous solution. Avoid causing the medium to foam.



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For descriptions of symbols on product labels or product documents, go to [thermofisher.com/symbols-definition](https://www.thermofisher.com/symbols-definition).

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

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