

## Medium 200

Cat. no. M-200-500  
500 ml

### Product Description

Medium 200 and phenol red-free Medium 200 (Medium 200PRF) are sterile, liquid tissue culture media intended for use as one component in a complete culture environment for normal human large vessel endothelial cells. Both Medium 200 and Medium 200PRF are basal culture media containing 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% CO<sub>2</sub>/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).

### Intended Use

Medium 200 is intended for use in the routine culture of normal human endothelial cells derived from large vessels. Medium 200PRF 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  $2.5 \times 10^3$  cells/cm<sup>2</sup> and  $1 \times 10^5$  cells/cm<sup>2</sup>. 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.***

## Medium 200PRF

Cat. no. M-200PRF-500  
500 ml

### Storage and Stability

Medium 200 and Medium 200PRF are stored at 4 °C in our facility and are shipped at ambient temperature. Upon receipt, these media should be stored at 4 °C and should not be frozen. **Protect from light.** Several components of these tissue culture media are light-labile, and we recommend that the media not be exposed to light for lengthy periods of time. If the media are warmed prior to use, do not exceed 37 °C. When stored in the dark at 4 °C, the product is stable until the expiration date on the label.

Refer to the instructions on page 2 to prepare the media for use.

***For research use only.***

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### **Preparation of Supplemented Medium 200 or Medium 200PRF with LSGS**

**Note:** For information on LSGS (cat. no. S-003-10), please refer to the LSGS product sheet.

1. Thaw one bottle of LSGS. Take one bottle of medium from cold storage. Make sure 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 medium.
5. Tightly cap the bottle of supplemented medium and swirl the contents to ensure a homogeneous solution. Avoid causing the medium to foam.

### **Storage and Stability of Supplemented Medium 200 and Medium 200PRF**

Once Medium 200 or Medium 200PRF has been supplemented with LSGS, the supplemented medium should be stored in the dark at 4<sup>o</sup> C and should not be frozen. When stored in the dark at 4<sup>o</sup> C, the supplemented medium is stable for 1 month.

#### **Limited Use Label License No. 5: Invitrogen Technology**

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### **Preparation of Supplemented Medium 200 or Medium 200PRF with LSGS Kit**

**Note:** For information on the LSGS Kit (cat. no. S-003-K), please refer to the LSGS Kit product sheet.

1. Thaw the frozen components of the LSGS Kit. Take one bottle of medium from cold storage. Make sure 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: fetal bovine serum; recombinant human basic fibroblast growth factor/heparin; hydrocortisone, recombinant human epidermal growth factor. Note: 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.