Endothelial Cell Growth Kit-BBE
PCS-100-040™

Description
Endothelial Cell Growth Kit-BBE contains components that when added to Vascular Cell Basal Medium (ATCC PCS-100-030) create a complete ATCC Primary Cell Solution culture environment for endothelial cells derived from normal human large vessels.

Shipping information: 1 kit

Storage Conditions
Product format: Frozen
Storage conditions: -20°C or colder, -70°C for long-term storage

Intended Use
This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1
ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of Biosafety in Microbiological and Biomedical Laboratories (BMBL), U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization’s policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.
Handling Procedures

Unpacking and Storage instructions

1. Check all containers for leakage or breakage.
2. Store the growth kit(s) at either -20°C in a freezer that is not self-defrosting or at -70°C for long-term storage. If thawed upon arrival, the Growth Kit can be stored at 2°C to 8°C and added to the basal medium within 72 hours of receipt.

Preparation of Complete Growth Media

1. Obtain one growth kit from the freezer; make sure that the caps of all components are tight.
2. Thaw the components of the growth kit just prior to adding them to the basal medium. It is necessary to warm the L-glutamine component in a 37°C water bath and shake to dissolve any precipitates, prior to adding to the basal medium.
3. Obtain one bottle of Vascular Cell Basal Medium (475 mL) from cold storage.
4. Decontaminate the external surfaces of all growth kit component vials and the basal medium bottle by spraying them with 70% ethanol.
5. Using aseptic technique, and working in a laminar flow hood or biosafety cabinet transfer the volume of each growth kit component, as indicated in Table 1 or 2, to the bottle of basal medium using a separate sterile pipette for each transfer.
6. Tightly cap the bottle of complete growth medium and swirl the contents gently to assure a homogeneous solution. Do not shake forcefully to avoid foaming. Label and date the bottle.
7. Complete media should be stored in the dark at 2°C to 8°C (do not freeze). When stored under these conditions, complete media is stable for 30 days.
Table 1. If using the Endothelial Cell Growth Kit-BBE (ATCC® PCS-100-040), add the indicated volume for each component:

<table>
<thead>
<tr>
<th>Component</th>
<th>Volume</th>
<th>Final Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bovine Brain Extract (BBE)</td>
<td>1.0 mL</td>
<td>0.2%</td>
</tr>
<tr>
<td>rh EGF</td>
<td>0.5 mL</td>
<td>5 ng/mL</td>
</tr>
<tr>
<td>L-glutamine</td>
<td>25.0 mL</td>
<td>10 mM</td>
</tr>
<tr>
<td>Heparin sulfate</td>
<td>0.5 mL</td>
<td>0.75 Units/mL</td>
</tr>
<tr>
<td>Hydrocortisone hemisuccinate</td>
<td>0.5 mL</td>
<td>1 µg/mL</td>
</tr>
<tr>
<td>Fetal Bovine Serum</td>
<td>10.0 mL</td>
<td>2%</td>
</tr>
<tr>
<td>Ascorbic acid</td>
<td>0.5 mL</td>
<td>50 µg/mL</td>
</tr>
</tbody>
</table>

Table 2. If using the Endothelial Cell Growth Kit-VEGF (ATCC® PCS-100-041), add the indicated volume for each component:

<table>
<thead>
<tr>
<th>Component</th>
<th>Volume</th>
<th>Final Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>rh VEGF</td>
<td>0.5 mL</td>
<td>5 ng/mL</td>
</tr>
<tr>
<td>rh EGF</td>
<td>0.5 mL</td>
<td>5 ng/mL</td>
</tr>
<tr>
<td>rh FGF basic</td>
<td>0.5 mL</td>
<td>5 ng/mL</td>
</tr>
</tbody>
</table>
Antimicrobials and phenol red are not required for proliferation but may be added if desired. The recommended volume of each optional component to be added to the complete growth media is summarized in Table 3.

**Table 3. Addition of Antimicrobials/Antimycotics and Phenol Red (Optional)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Volume</th>
<th>Final Concentration</th>
</tr>
</thead>
</table>
| Gentamicin-Amphotericin B Solution | 0.5 mL | Gentamicin: 10 µg/mL  
Amphotericin B: 0.25 µg/mL |
| Penicillin-Streptomycin-Amphotericin B Solution | 0.5 mL | Penicillin: 10 Units/mL  
Streptomycin: 10 µg/mL  
Amphotericin B |

<table>
<thead>
<tr>
<th>Component</th>
<th>Volume</th>
<th>Final Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>rh IGF-1</td>
<td>0.5 mL</td>
<td>15 ng/mL</td>
</tr>
<tr>
<td>L-glutamine</td>
<td>25.0 mL</td>
<td>10 mM</td>
</tr>
<tr>
<td>Heparin sulfate</td>
<td>0.5 mL</td>
<td>0.75 Units/mL</td>
</tr>
<tr>
<td>Hydrocortisone hemisuccinate</td>
<td>0.5 mL</td>
<td>1 µg/mL</td>
</tr>
<tr>
<td>Fetal Bovine Serum</td>
<td>10.0 mL</td>
<td>2%</td>
</tr>
<tr>
<td>Ascorbic acid</td>
<td>0.5 mL</td>
<td>50 µg/mL</td>
</tr>
</tbody>
</table>
Quality Control Specifications

Bacterial and fungal testing: Not detected
Mycoplasma contamination: Not detected
Functional tests: Rate of proliferation and morphology

*A Certificate of Analysis (COA) is available upon request for each lot of Keratinocyte Growth Kit.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Endothelial Cell Growth Kit-BBE (ATCC PCS-100-040)

References

References and other information relating to this material are available at www.atcc.org.

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**Contact Information**

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA

US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor