Mammary Epithelial Cell Growth Kit
PCS-600-040™

Description
Mammary Epithelial Cell Growth Kit contains all components to be added to Mammary Epithelial Cell Basal Medium (ATCC PCS-600-030) to create a complete medium designed to support epithelial cells derived from a patient’s breast. The Mammary Epithelial Cell growth kit contains rH-Insulin, L-Glutamine, Epinephrine, Apo-Transferrin, rH-TGFα, Extract P, and Hydrocortisone Hemisuccinate. To support the proliferation and plating efficiency of mammary epithelial cells ATCC PCS-600-010, all components from the Mammary Cell Growth Kit must be added to the Mammary Epithelial Cell Basal Medium (ATCC PCS-600-030).

ATCC’s Human Mammary Epithelial Cells cultured in Mammary Epithelial Cell complete medium (basal medium plus growth kit) is an optimal serum-free culture model for many research areas. Common uses of HMEC include the study of breast cancer development, three-dimensional culture, and carcinogen screening.

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.
Biosafety Information

ATCC determined that a biosafety level is not applicable to this 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 complete your own risk assessment and understand any potential hazards associated with the material per your organization’s policies and procedures and any other applicable regulations as enforced by your local or national agencies.

All tissues used for isolation are obtained under informed consent and conform to HIPAA regulations to protect the privacy of the donor’s Personally Identifiable Information. It is best to use caution when handling any human cells. We recommend that all human cells be accorded the same level of biosafety consideration as cells known to carry Human immunodeficiency virus (HIV) and other bloodborne pathogens. With infectious virus assays or viral antigen assays, even a negative test result may not exclude the possibility of the existence of a latent viral genome or infectious viral particles below the lower limit of detection of that assay.

ATCC recommends that appropriate safety procedures be used when handling all primary cells and cell lines, especially those derived from human or other primate material. Handle as a potentially biohazardous material using universal precautions. Cells derived from primate lymphoid tissue may fall under the regulations of 29 CFR 1910.1030 Bloodborne Pathogens.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Handling Procedures
1. Obtain one growth kit from the freezer; make sure that the caps of all components are tight.

2. Thaw the components of the Mammary Epithelial Cell Growth Kit (PCS-600-040) just prior to adding them to the basal medium.

3. Obtain one bottle of Mammary Epithelial Cell Basal Medium (PCS-600-030, 485 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 indicated volume of each growth kit component to the bottle of basal medium using a separate sterile pipette for each transfer.

<table>
<thead>
<tr>
<th>Component</th>
<th>Volume</th>
<th>Final Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>rH-Insulin</td>
<td>0.5 mL</td>
<td>5 µg/mL</td>
</tr>
<tr>
<td>L-Glutamine</td>
<td>15 mL</td>
<td>6 mM</td>
</tr>
<tr>
<td>Epinephrine</td>
<td>0.5 mL</td>
<td>1 µM</td>
</tr>
<tr>
<td>Apo-Transferrin</td>
<td>0.5 mL</td>
<td>5 µg/mL</td>
</tr>
<tr>
<td>rH-TGF-α</td>
<td>0.5 mL</td>
<td>0.5 ng/mL</td>
</tr>
<tr>
<td>ExtractP</td>
<td>2 mL</td>
<td>0.4%</td>
</tr>
<tr>
<td>Hydrocortisone Hemmisuccinate</td>
<td>0.5 mL</td>
<td>100 ng/mL</td>
</tr>
</tbody>
</table>

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.

---

**Quality Control Specifications**

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

---

**Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: Mammary Epithelial Cell Growth Kit (ATCC PCS-600-040)

---

**References**

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

---

**Warranty**

The product is provided ‘AS IS’ and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid.
Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

Disclaimers

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. Any proposed commercial use is prohibited without a license from ATCC.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate or complete and the customer bears the sole responsibility of confirming the accuracy and completeness of any such information.

This product is sent on the condition that the customer is responsible for and assumes all risk and responsibility in connection with the receipt, handling, storage, disposal, and use of the ATCC product including without limitation taking all appropriate safety and handling precautions to minimize health or environmental risk. As a condition of receiving the material, the customer agrees that any activity undertaken with the ATCC product and any progeny or modifications will be conducted in compliance with all applicable laws, regulations, and guidelines. This product is provided ‘AS IS’ with no representations or warranties whatsoever except as expressly set forth herein and in no event shall ATCC, its parents, subsidiaries, directors, officers, agents, employees, assigns, successors, and affiliates be liable for indirect, special, incidental, or consequential damages of any kind in connection with or arising out of the customer’s use of the product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials.

Please see the material transfer agreement (MTA) for further details regarding the use of this product. The MTA is available at www.atcc.org.
Mammary Epithelial Cell Growth Kit
PCS-600-040

Copyright and Trademark Information
© ATCC 2023. All rights reserved.
ATCC is a registered trademark of the American Type Culture Collection.

Revision
This information on this document was last updated on 2023-01-21

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