**Airway Epithelial Cell Basal Medium**

**PCS-300-030™**

**Description**

Airway Epithelial Cell Basal Medium is a sterile, phenol-red-free, liquid tissue culture medium intended for use as one component in a complete ATCC Primary Cell Solutions system. This serum-free system is designed to support airway epithelial cells derived from a normal human lung. Airway Epithelial Cell Basal Medium contains essential and non-essential amino acids, vitamins, other organic compounds, trace minerals, and inorganic salts. To support the proliferation and plating efficiency of various types of airway epithelial cells, Airway Cell Basal Medium must be supplemented with the appropriate cell-specific growth kit. When using this complete media system, the growth of airway epithelial cells is supported without the use of feeder layers, extracellular matrix proteins, or other substrates.

**Volume**: 485 mL

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**Storage Conditions**

**Storage conditions**: 2°C to 8°C

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**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.

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**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.

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 growth kit just prior to adding them to the basal
medium. If the growth kit contains L-glutamine, 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 Airway Cell Basal Medium (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, as
   indicated in Table 1 or 2, to the bottle of basal medium using a separate sterile
   pipette for each transfer.

Table 1. When using the Bronchial Epithelial Cell Growth Kit (ATCC® PCS-300-040),
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>HLL Supplement</td>
<td>1.25 mL</td>
<td>HSA 500 mg/mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Linoleic Acid 0.6 mM</td>
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<tr>
<td></td>
<td></td>
<td>Lecithin 0.6 mg/mL</td>
</tr>
<tr>
<td>L-Glutamine</td>
<td>15 mL</td>
<td>6 mM</td>
</tr>
<tr>
<td>Extract P</td>
<td>2.0 mL</td>
<td>0.4%</td>
</tr>
<tr>
<td>Airway Epithelial Cell Supplement</td>
<td>5.0 mL</td>
<td>Epinephrine 1.0 mM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Transferrin 5 mg/mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T3 10 nM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hydrocortisone 5 mg/mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>rh EGF 5 ng/mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>rh Insulin 5 mg/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 media is summarized in Table 2.

**Table 2. Addition of Antimicrobials/Antibiotics and Phenol Red (Optional)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Volume</th>
<th>Final Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gentamicin-Amphotericin</td>
<td>0.5 mL</td>
<td>Gentamicin: 10 µg/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 growth 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  
**Mycoplasma contamination:** Not detected  
**Endotoxin:** < 0.5 EU/mL  
**Osmolality:** 315 ± 10 mOsm/kg  
**pH:** 7.5 ± 0.2  
**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: Airway Epithelial Cell Basal Medium (ATCC PCS-300-030)

References

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

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Revision

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Contact Information