

Prostate Epithelial Cell Basal Medium

Product Information Sheet for ATCC® PCS-440-030

Introduction

Prostate 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 prostate epithelial cells derived from normal human prostate. Prostate 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 prostate epithelial cells, Prostate Cell Basal Medium must be supplemented with the appropriate cell-specific growth kit. When using this complete media system, the growth of prostate epithelial cells is supported without the use of feeder layers, extracellular matrix proteins or other substrates.

- A. For prostate epithelial cells derived from prostate tissue (e.g., Primary Prostate Epithelial Cells, Normal, Human, ATCC® PCS-440-010), supplement Prostate Epithelial Cell Basal Medium with the Prostate Epithelial Cell Growth Kit (ATCC® PCS-440-040).
- B. Optional media supplements:
1. Gentamicin-Amphotericin B Solution (ATCC® PCS-999-025)
 2. Penicillin-Streptomycin-Amphotericin B Solution (ATCC® PCS-999-002)
 3. Phenol Red (ATCC® PCS-999-001)

Quality Control Specifications*

Sterility testing: Negative for bacteria, fungi and yeast.

Cell testing: Rate of proliferation and morphology.

pH: 7.5 ±0.2

Osmolality: 315 ±10 mOsm

Endotoxin: <0.5 EU/mL

**A Certificate of Analysis (COA) is available upon request for each lot of Prostate Epithelial Cell Basal Medium.*

Unpacking and Storage Instructions

1. Check all containers for leakage or breakage.
2. Store the basal medium at 2°C to 8°C. Do not freeze. Protect from light. Do not exceed 37°C when warming the media prior to use. When stored in the dark at 2°C to 8°C, the product is stable until the expiration date on the label.

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. 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 Prostate 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, to the bottle of basal medium using a separate sterile pipette for each transfer.

Table 1. Prostate Epithelial Cell Growth Kit Components

| Component | Volume | Final Concentration |
|------------------------------|--------|---------------------|
| L-Glutamine | 15 mL | 6 mM |
| Extract P | 2.0 mL | 0.4% |
| Epinephrine | 0.5 mL | 1.0 µM |
| rh TGF-α | 0.5 mL | 0.5 ng/mL |
| Hydrocortisone hemisuccinate | 0.5 mL | 100 ng/mL |
| rh Insulin | 0.5 mL | 5 µg/mL |
| Apo-transferrin | 0.5 mL | 5 µg/mL |

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)

| Component | Volume | Final Concentration |
|--|--------|---|
| 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: 25 ng/mL |
| Phenol Red | 0.5 mL | 33 µM |

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.

Terms and Conditions

This product is intended for Research Use Only. It is not intended for human, animal or diagnostic use.

Please refer to the Material Transfer Agreement (MTA) and packing slip enclosed with the shipment. The MTA is also available on our Web site at www.atcc.org.

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