Mammary Epithelial Cell Basal Medium

PCS-600-030™

Description

Mammary Epithelial Cell Basal Medium is a sterile, phenol-red-free, liquid tissue culture medium designed to support epithelial cells derived from a normal patient's breast. Mammary 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 mammary epithelial cells ATCC PCS-600-010, Mammary Cell Basal Medium must be supplemented with the Mammary Epithelial Cell Growth Kit (ATCC PCS-600-040). 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.

Storage Conditions

Storage conditions: 2°C to 8°C

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.

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.

Component	Volume	Final Concentration
rH-Insulin	0.5 mL	5 µg/mL

L-Glutamine	15 mL	6 mM
Epinephrine	0.5 mL	1 µM
Apo-Transferrin	0.5 mL	5 µg/mL
rH-TGF-α	0.5 mL	0.5 ng/mL
ExtractP	2 mL	4%
Hydrocortisone Hemmisuccinate	0.5 mL	100 ng/mL

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
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: Mammary Epithelial Cell Basal Medium (ATCC PCS-600-030)

References

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

Warranty

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