

**Product Name**

Name: Epithelial Cell Complete Medium

Cat. No.: C3650-0100, C3650-0500

Size: 100 mL, 500 mL

**Product Introduction**

Epithelial cells are the cells located on the surface of the skin or lumen and flat, columnar, or cuboidal in shape. The epithelial cells that make up the skin protect the subcutaneous tissue from damage by mechanical force, dangerous chemicals, and bacterial invasion and they also prevent excessive loss of moisture from the body. Epithelial cells covering the pancreas secrete enzymes to promote digestion. Small intestinal epithelial cells absorb nutrients from digested food. Respiratory epithelial cells form mucous membranes that secrete mucus to prevent inhaled bacteria and viruses from entering the lungs.

Epithelial cell complete medium contains various nutrients required by epithelial cells and can be used without adding any extra ingredients for the in vitro culture of human or other animal epithelial cells. After long-term testing, it can maintain the optimal growth state of epithelial cells.

**Applications**

Suitable for culturing various types of epithelial cells, such as breast epithelial cells (MCF-10A), human corneal epithelial cells (HCEpiC), human endometrial epithelial cells (hEEC), human ureteral epithelial cells (SV-HUC-1), and rat renal tubular epithelial cells (NRK).

**Storage and Stability**

The product should be kept at **-20°C**.

The product is **light-sensitive** and therefore should not be left in the light.

Shelf life: 24 months from date of manufacture

**Procedure**

After taking out the complete culture medium from the freezer (**do not directly thaw the product from -20°C to 37°C**, as this can easily cause protein aggregation and precipitation due to the extreme temperature changes), thaw it at 2 - 8°C, gently shake it intermittently during the thawing process, and then aliquot or directly use it after it is completely thawed. The completely thawed culture medium is recommended to be stored at 2 - 8°C and used up within 1 - 2 weeks.

**Quality Control**

Epithelial Cell Complete Medium is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

**Guidelines for use**

**Passage of adherent cells:**

1. Warm up the medium and PBS in a 37°C water bath in advance, wipe with 75% alcohol, and then place in the biosafety cabinet.
2. Remove the old culture medium from the culture dish or flask and use PBS to wash the cells.
3. Add an appropriate amount of trypsin to cover the cells, incubate at 37°C, observe under the microscope every 2 - 3 minutes, and discard the trypsin when the gap between the adherent cells becomes larger and the cells tend to be round but not yet floating.
4. Add fresh culture medium to the cells to terminate the trypsin action and carefully pipette the adherent cells repeatedly to prepare a cell suspension. Avoid generating bubbles (not to expel out all the liquid in each pipetting).
5. Inoculate the cell suspension into another 2 - 3 culture wares, add more fresh culture medium, and culture in a 37°C incubator. Observe the growth of the adherent cells the next day.

**Precaution and Disclaimer**

For research use only, not for clinical diagnosis, and treatment.