

CSI069Fe01 Primary Feline Tracheal Epithelial Cells (TEC) Organism Species: Felis silvestris catus (Feline) Instruction manual

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in May, 2025)

### [ DESCRIPTION ]

Cell Type: Epithelium Synonyms: TEC Strain: Feline Age: 3-4 Weeks Tissue Source: Trachea Disease: Normal Size: >5×10<sup>5</sup>cell/vial

### [PROPERTIES]

Cell activity: >85% (Viability by Trypan Blue Exclusion).
Formulation: Frozen 1 mL or T25 flask.
Biosafety: Negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast and fungi.
Applications: For research use only. It is not approved for human or animal use, or for application in clinical diagnostic procedures.
Growth Properties: Adherent

## [ CONTENTS ]

Form & Buffer: Supplied as solution form in frozen stock solution, containing 90% FBS+10% DMSO.

## [USAGE]

Upon receiving the cells in a T-25 flask at room temperature, immediately transfer the cells to  $37^{\circ}$ C, 5% CO<sub>2</sub> incubator; the cells in vials, directly and immediately transfer the cells from dry ice to liquid nitrogen.

#### Culture conditions:

DMEM/F12+5% FBS+1% Epithelial Cell Growth Supplement+1% Penicillin-Streptomycin Solution

Temperature: 37°C

Condition: 95% air, 5% carbon dioxide

#### Cell recovery:

After receiving the cells, shake at 37°C in a water bath until completely dissolved, transfer to a 15 ml centrifuge tube, add 3-5 times complete culture solution, 1000 rpm for 5 min, discard the supernatant, and place in a T25 flask for culture.

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#### Cell passage:

- 1. Cell passage when cell growth at 85-95%.
- 2. Discard the medium and wash with PBS 1-2 times.
- 3. Add 1 ml of Trypsin at 37°C, observe the cell under the microscope. If the cells are retracted and rounded, pat the culture flask to let the cells fall off. Stop digestion by adding 2 ml of complete medium containing 10% serum. Make it a single cell suspension.
- 4. Add the fresh medium to resuspend the cells. Unless otherwise stated, the recommended ratio of primary cells is 1/2.

# [Shipping]

Dry ice.

# [STORAGE]

Upon receiving, directly and immediately transfer the cells from dry ice to liquid nitrogen and keep the cells in liquid nitrogen until they are needed for experiments.

### [IMPORTANT NOTE]

1. The cultured cycle of Feline Tracheal Epithelial Cell is limited in *vitro*. It is suggested that after cell resuscitation, the special growth medium and correct operation method recommended by us should be used for culture, and it should be used for follow-up experiments as soon as possible.

2. It is recommended that culture bottles be coated with Collagen type I from rat tail, and the concentration of rat tail collagen coating is  $2-5\mu g/cm^2$ .

3. The cell is for research use only, and we will not be responsible for any issue if the cell was used in clinical diagnostic or any other procedures.

## [Figure]

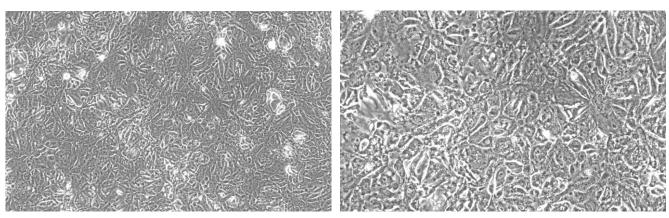


Figure 2

Figure 1Figure 1Morphology of Feline Tracheal Epithelial Cells (Optical microscope,×100)Figure 2Morphology of Feline Tracheal Epithelial Cells (Optical microscope,×200)

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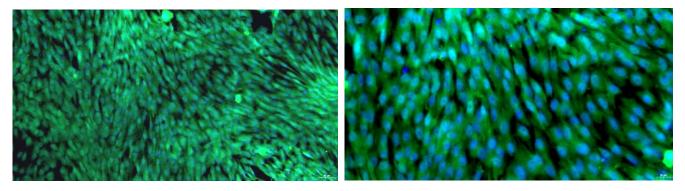




Figure 4

Figure 3 Immunofluorescence identification of C	ytokeratin 18 (CK18) specific antibody	(×200)
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Figure 4 Immunofluorescence identification of Cytokeratin 18 (CK18) specific antibody (×400)