

CSI061Fe01 Primary Feline Renal Tubular Epithelial Cells (RTEC) 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: Epithelial Cells Synonyms: RTEC Strain: Feline Age: 3-4 Weeks Tissue Source: Renal Tubular Disease: Normal Size: >5×10⁵cell/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° C, 5% CO₂ 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.

Cloud-Clone Corp.

Cell passage:

- 1. Cell passage when cell growth at 85-95%.
- 2. Discard the medium and wash with PBS 1-2 times.
- Add 1 ml of Trypsin Solution (Trypsin Solution without EDTA-2Na) 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]

The cultured cycle of Primary Feline Renal Tubular Epithelial Cells 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.
 It is recommended that culture bottles be coated with Collagen type I from rat tail, and the concentration of rat tail collagen coating is 2-5µg/cm².

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]

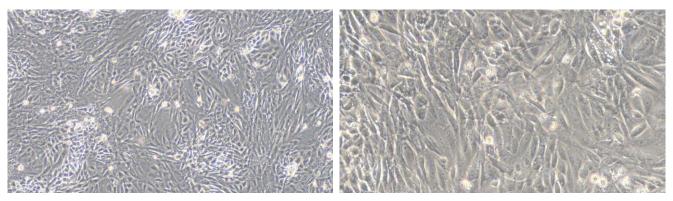


Figure 1 Figure 2 Figure 1 Morphology of Feline Renal Tubular Epithelial Cells (Optical microscope,×100) Figure 2 Morphology of Feline Renal Tubular Epithelial Cells (Optical microscope,×200)

Cloud-Clone Corp.

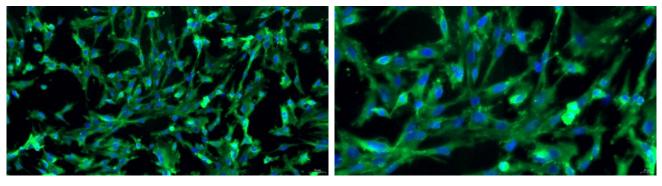


Figure 3

Figure 4

- Figure 3 Immunofluorescence identification of ZO-1 specific antibody (×200)
- Figure 4 Immunofluorescence identification of ZO-1 specific antibody (×400)