



CSI268Ca01

Primary Canine Vas Deferens Epithelial Cells (VDEC)

Organism Species: *Canis familiaris*; Canine (Dog)

*Instruction manual*

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Jul, 2026)

## [ DESCRIPTION ]

**Cell Type:** Epithelium

**Synonyms:** VDEC

**Strain:** Beagle

**Age:** 8-12 months

**Tissue Source:** Vas deferens

**Gender:** Male

**Disease:** Normal

**Size:**  $>5 \times 10^5$  cells/vial

**Growth properties:** Adherent

**Morphology:** Epithelial-like

## [ 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.

## [ CONTENTS ]

**Form & Buffer:** Supplied as solution form in frozen stock solution (Protein-free, Chemical Defined Cell Cryopreservation Medium). **VDEC are cryopreserved at P0 and delivered frozen.**

## [ USAGE ]

Upon receiving the cells in a T-25 flask at room temperature, immediately transfer the cells to 37°C, 5% incubator; the cells in vials, directly and immediately transfer the cells from dry ice to liquid nitrogen.

**Culture conditions:**

**Coating conditions:** Rat tail collagen I ( $2-5 \mu\text{g}/\text{cm}^2$ )

DMEM/F12+10% FBS+1% Epithelial Cell Growth Supplement+1% Penicillin-Streptomycin Solution

Temperature: 37°C

Condition: 95% air, 5% carbon dioxide

Medium Renewal: Every 1 to 2 days

Dissociation Solution: 0.25% Trypsin

**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.

**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.

**[ IMPORTANTNOTE ]**

1. The culture cycle of Primary Canine Vas Deferens Epithelial Cells (VDEC) is limited in vitro. It is recommended to use the specialized growth medium provided by Cloud-Clone Corp. and follow the correct operational procedures to ensure optimal culture conditions for these cells.
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 2-5µg/cm<sup>2</sup>.
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 ]**

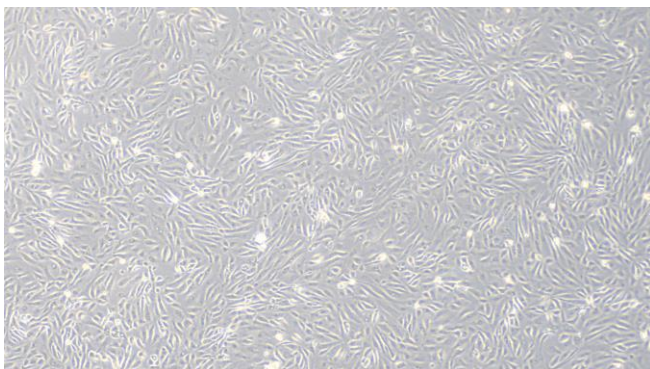


Figure 1

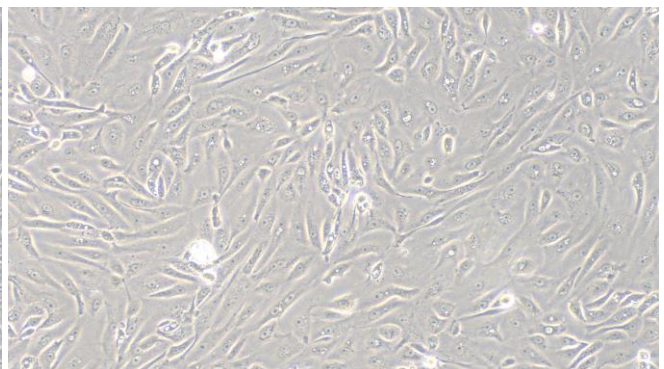


Figure 2

Figure 1 Morphology of Canine Vas Deferens Epithelial Cells (Optical microscope, ×100)

Figure 2 Morphology of Canine Vas Deferens Epithelial Cells (Optical microscope, ×200)

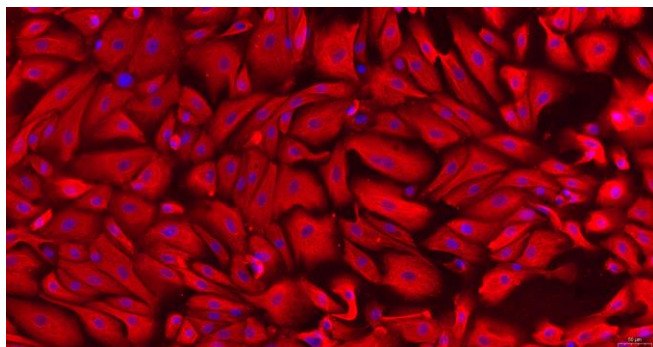


Figure 3

Figure 3 Immunofluorescence identification of CK-18 specific antibody (×200)

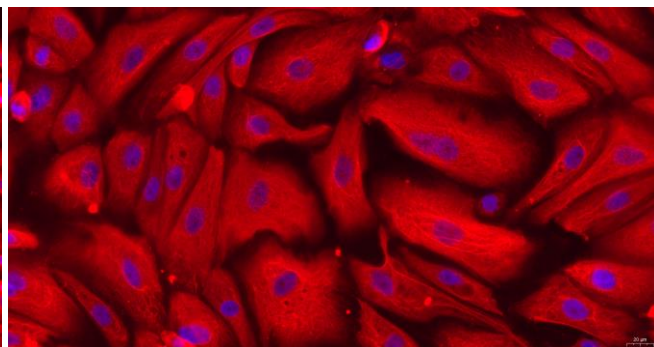


Figure 4

Figure 4 Immunofluorescence identification of CK-18 specific antibody (×400)