

CSI265Ra01 Primary Rat Urothelial Smooth Muscle Cells (USMC) Organism Species:Rattus norvegicus (Rat) *Instruction manual* 

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Jan, 2024)

## [ DESCRIPTION ]

Cell Type: Smooth muscle cell Synonyms: USMC Species: Rattus norvegicus (Rat) Tissue Source: Urinary Tract 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°C, 5% incubator; the cells in vials, directly and immediately transfer the cells from dry ice to liquid nitrogen.

### **Culture conditions:**

DMEM+5% FBS+1% Smooth muscle 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.

#### Cell passage:

- 1. Cell passage when cell growth at 85-95%.
- 2. Discard the medium and wash with PBS 1-2 times.

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- 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]

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]

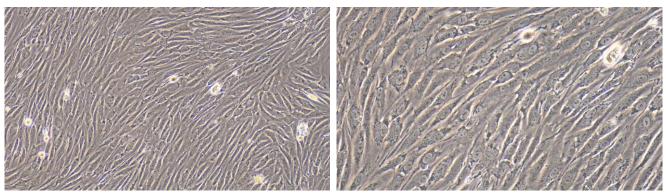
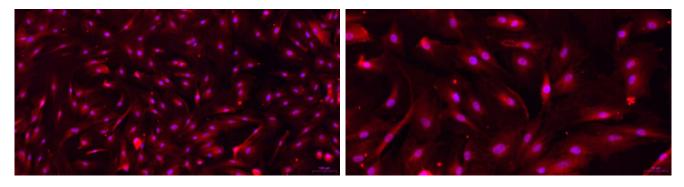


 Figure 1
 Figure 2

 Figure 1
 Morphology of Rat Urothelial Smooth Muscle Cells (USMC)
 (Optical microscope,×100)

 Figure 2
 Morphology of Rat Urothelial Smooth Muscle Cells (USMC)
 (Optical microscope,×200)





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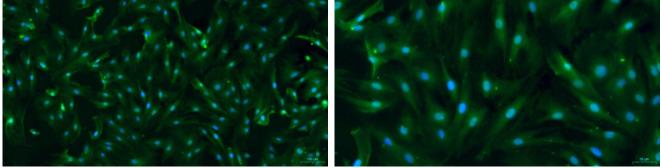


Figure 5

Figure 6

Figure 5 Immunofluorescence identification of  $\alpha$ -SMA specific antibody (×100)

Figure 6 Immunofluorescence identification of α-SMA specific antibody (×200)