

CSI107Ra01

Primary Rat Colonic Smooth Muscle Cells (CSMC)

**Organism Species: Rattus norvegicus (Rat)** 

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Oct. 2024)

## [ DESCRIPTION ]

Cell Type: Smooth muscle cell

Synonyms: CSMC

Strain: Sprague Dawley Rat

Age: 1-2 days

Tissue Source: Colon

**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°C, 5% incubator; the cells in vials, directly and immediately transfer the cells from dry ice to liquid nitrogen.

#### **Culture conditions:**

DMEM+10%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.

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#### Cell passage:

- 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 1/3.

## [STORAGE]

Freeze of the liquid nitrogen (90% FBS +10% DMSO).

# [Shipping]

Dry ice.

## [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]

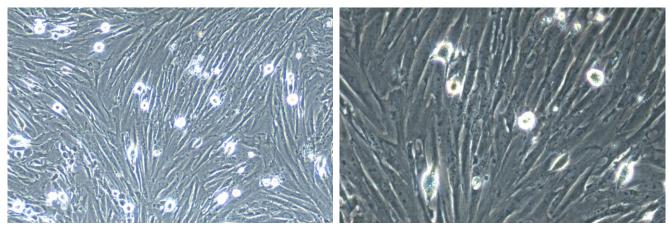


Figure 1 Figure 2

Figure 1 Morphology of Primary Rat Colonic Smooth Muscle Cells (Optical microscope,×100)
Figure 2 Morphology of Primary Rat Colonic Smooth Muscle Cells (Optical microscope,×200)

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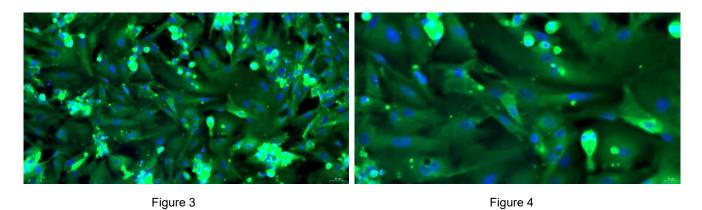


Figure 3 Immunofluorescence identification of Actin Alpha 2, Smooth Muscle(ACTa2) specific antibody (×200)
Figure 4 Immunofluorescence identification of Actin Alpha 2, Smooth Muscle(ACTa2) specific antibody (×400)