

CSI285Ra01

Primary Rat Retinal Muller Cells (RMCs)

Organism Species: Rattus norvegicus (Rat)

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Jul 2024)

[DESCRIPTION]

Cell Type: Retinal Glial cells

Synonyms: RMCs

Species: Rattus norvegicus (Rat) **Strain:** Sprague Dawley Rat

Age: 12-16 days

Tissue Source: Retina

Disease: Normal **Size:** >5×10⁴ cell/vial

[PROPERTIES]

Cell activity: >85% (Viability by Trypan Blue Exclusion). **Formulation:** Frozen 1 mL (90%FBS+10% DMSO)

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/F12+10%FBS+1% Glial 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%.
- 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 1/2-1/3.

[Shipping]

Dry ice.

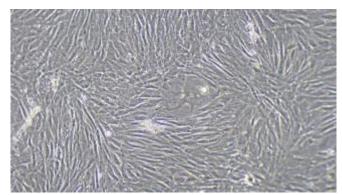
[STORAGE]

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 Rat Retinal Muller 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. 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]



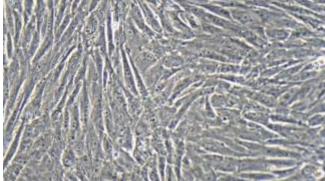


Figure 1 Figure 2

Figure 1 Morphology of Rat Retinal Muller Cell (Optical microscope,×100)

Figure 2 Morphology of Rat Retinal Muller Cell (Optical microscope, ×200)