



CSI178Mu01

Primary Mouse Retinal Ganglion Cells (RGC)

Organism Species: *Mus musculus* (Mouse)

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

2nd Edition (Revised in May 2022)

[DESCRIPTION] [DESCRIPTION]

Cell Type: Ganglion cells

Synonyms: RGC

Species: *Mus musculus* (Mouse)

Tissue Source: Retina

Size: $>5 \times 10^4$ cell/mL

[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:

RGCs medium: Neurobasal-A medium, B-27 Supplement (50X), 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 culture:

The culture cycle of Mouse Retinal Ganglion Cells was limited in vitro. Further cultivation of RGC is guaranteed under the conditions provided by us. However, RGC is not recommended for expansion or long-term culture because cells do not proliferate in culture.

[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. RGC is not recommended for expanding or long-term cultures because of its lack of proliferative capacity.
2. Experiments should be well organized before thawing RGC . It is recommended that RGC are used for experiments as quickly as possible after thawing the cells. Cells are not intended for long-term culture.
3. The cell is for research use only, we will not be responsible for any issue if the cell was used in clinical diagnostic or any other procedures.

[Figure]

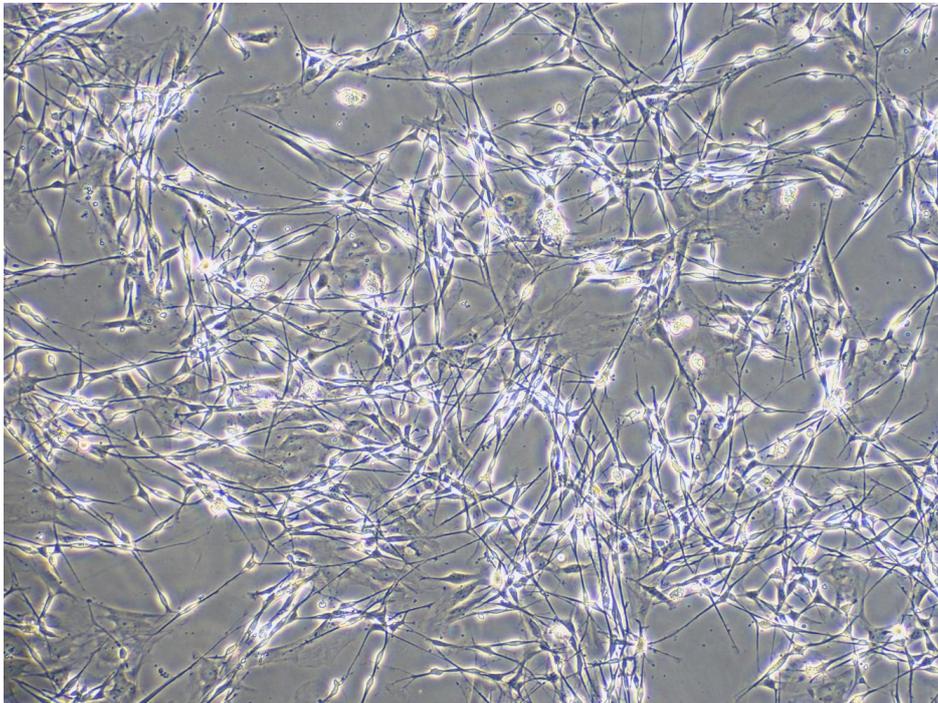


Figure 1 Morphology of RGCs (Optical microscope,×100)