



CSI916Mu01

Primary Mouse Peritoneal Mast Cells (PeMC)

Organism Species: *Mus musculus* (Mouse)

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Jul, 2026)

[DESCRIPTION]

Cell Type: Mast Cell

Synonyms: PeMC

Strain: BALB/c Mouse

Age: 3 Weeks

Tissue Source: Peritoneal lavage fluid

Disease: Normal

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

Growth properties: Suspension

Morphology: Oval

[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). ***PeMC 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:

1640+15% FBS+1% Mast Cel growth supplement+1% Penicillin-Streptomycin Solution

Temperature: 37°C

Condition: 95% air, 5% carbon dioxide

Medium Renewal: Every 3 to 4 days

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:

The cells are suspension cells without adherent capacity. For routine maintenance, either partial fresh medium supplementation or total medium replacement can be adopted. When standardized passaging is required, cells are harvested by centrifugation at 1200 rpm for 3 min, followed by resuspension in prewarmed complete medium to adjust the viable cell density to $1-4 \times 10^5$ cells/mL.

A simplified half-volume exchange method is preferred for daily subculture: an equal volume of fresh complete medium is added to the original culture vessel; the cell suspension is gently triturated to uniform distribution and divided equally into two new T25 culture flasks. Medium refreshment is conducted every 3 to 4 days depending on cell proliferation density.

[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 Mouse Peritoneal Mast Cells (PeMC) 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. 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]

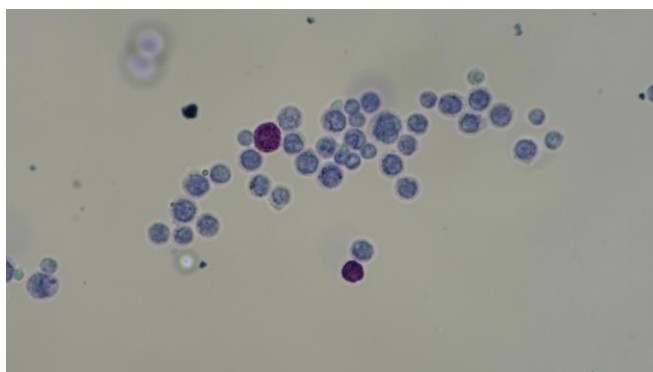


Figure 1

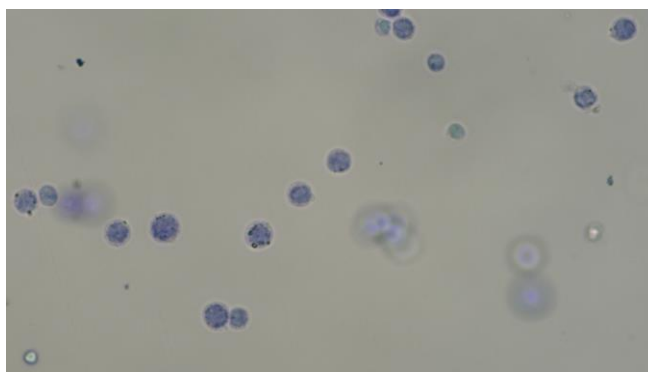


Figure 2

Figure 1 Toluidine blue staining of Primary Mouse Peritoneal Mast Cells (Optical microscope, ×400)

Figure 2 Toluidine blue staining of Primary Mouse Peritoneal Mast Cells (Optical microscope, ×400)