

Serum-free cell freezing-preservation solution



Instruction manual

Ver. 20220704

iStock is a completely serum-free cell freezing-preservation solution for long-term freezing preservation of human-derived cells (human T lymphocytes etc.). iStock has the same freezing preservation effect as the freezing preservation solution containing serum.

Features

- ◆ Preparation of preservative solution is not required. Can be used without diluting.
- ◆ Program freezer is not required.
- ◆ Frozen cells can be frozen rapidly and for long periods at deep freezer (-80°C).
- ◆ Contains no serum or components derived from other species.

Applications

- ◆ Human immune cells
- ◆ Human mesenchymal stem cells
- ◆ Human iPS cells

Storage conditions

- ◆ Cool and dark place (2 to 10°C)

Sterility tests

- ◆ Endotoxin: Colorimetric method
- ◆ Mycoplasma: Cultural method
- ◆ Fungus and bacteria: Agar plate surface smear method

Operational procedure:

1. Freezing-preservation of cells

- 1) Transfer the cells into centrifuge tubes.
- 2) Centrifuge the tubes at $800 \times g$ at 4°C for 3 to 5 minutes, and remove the supernatant using an aspirator. Add iStock at a rate of 1 ml to $\sim 1.5 \times 10^7$ cells, and suspend the cells by pipetting gently.
- 3) Dispense the cell suspension into the cryotubes.
- 4) Freeze and store the cells in a deep freezer at -80°C. (For some cell types, transfer, the cryotubes should be transferred to a commercially available freezing container and store it frozen.)
- 5) Next day, transfer the tubes to liquid nitrogen tank.

2. Thawing of cells

- 1) Thaw the frozen cryotubes quickly with a 37°C hot bath or the like.
- 2) Immediately mix with about 10 ml of medium to be used for culture.
- 3) Centrifuge the tubes at $800 \times g$ at 4°C for 3 to 5 minutes, and remove the supernatant using an aspirator.
- 4) Suspend the cells into an appropriate amount of medium, transfer to a culture vessel, and start culturing.

Precautions

- ◆ Please do not use for human body.
- ◆ This product is not approved for pharmaceutical use.
- ◆ Before using, please conduct a confirmation test with the cells to be used.
- ◆ We cannot assume the responsibility for accidents and damage caused by the use of this product.
- ◆ If you have any questions about the use, please contact GC LYMPHOTEC Inc.