

## Serum-free cell cryopreservation solution

### Overview

Serum-free cell cryopreservation solution is a new type of protective solution for rapid cryopreservation of cells. It does not contain animal-derived components. It can effectively improve the cell survival rate and vitality of recovery, reduce the pollution of various viruses, molds and mycoplasma, and ensure Cryopreservation of cells is safe. It is suitable for cryopreservation of cultured cells in general, and cryopreservation of serum-free cultured cells and protein-expressing cells.

### Packing specification

Product Numbers: L0010、L0020、L0050、L0100

Specification: 10ml、2\*10ml、5\*10ml、 100ml

### Storage conditions

Store at 4°C, valid for one year; Store at -20°C, valid for two years;

### Product advantages

No program cooling

Ready-to-use cell cryopreservation solution

No animal-derived ingredients, no serum ingredients, and clear chemical ingredients

Fast freezing, can be placed directly in the refrigerator at -80 °C

High cell recovery rate

### Some cells with cell recovery efficiency up to 90%

RAW264.7、NIH-3T3、MCF-7、HEK-293、HepG2、Hela、C2C12、A549、NCI-H460、CHO、COS7、DU145、MDCK、MSC Wait。

### Freezing operation steps

1. Collect suspended cells or adherent cells and centrifuge to remove the supernatant;
2. Add an appropriate amount of cell cryopreservation solution, resuspend the cells, and adjust the cell density to  $5 \times 10^5 - 1 \times 10^7$  / ml;
3. Dispense the cell suspension added with cryopreservation solution into cryopreservation tubes;

4. Directly transfer the cryopreservation tube to a refrigerator at  $-80^{\circ}\text{C}$  for frozen storage;

### **Precautions**

1. Please choose to freeze the logarithmic growth phase cells;
2. After adding the cryopreservation solution to the cells, please put them into the  $-80^{\circ}\text{C}$  refrigerator for storage as soon as possible;
3. The frozen cells of this product can be stored in the refrigerator at  $-80^{\circ}\text{C}$  for more than 5 years;
4. If you need to freeze the cells for a long time, please transfer to a liquid nitrogen tank for storage;

The cryopreservation fluid contains DMSO. For your safety and health, please wear lab coat and disposable gloves

### **Frozen cell recovery steps**

1. Thaw the cells in a  $37^{\circ}\text{C}$  water bath equipment to confirm that the cell fluid is completely thawed.
2. After the cell mixture in the cryotube is completely thawed, immediately add 1ml of cell culture medium to the cryotube and mix with the cells.

Transfer the mixed solution to a centrifuge tube containing about 5ml of the cell culture medium, 1000rpm, centrifuge for 5 minutes to collect the frozen

Save the cell pellet and remove the supernatant.

3. Add an appropriate amount of fresh cell culture medium, slowly add to the cell pellet using a pipette, mix gently, and mix the cells

The mixed solution is transferred to the culture container prepared in advance.

**It can only be used for scientific research. It is forbidden to use it for human, animal or other purposes.**