Programmatic Serum-free cryopreservation medium
Catalog No:RC0002

Product Information

Programmatic Serum-free cryopreservation medium is a solution used to freeze and preserve cells. Its purpose is to protect cells at low temperatures and store cells in liquid nitrogen for a long time. The cryopreservation solution developed by our company contains a variety of cell protectants and sedimentation stabilizers, which can effectively protect cells during the freezing and recovery process.

Size

100mL

Storage

Transported and stored at 2~8℃, valid for 12 months.

Operation steps

● **Cell cryopreservation**
1. Cultivate the cells to a suitable state and density before freezing. It is recommended to change the medium once 4-8 hours before freezing to ensure the best growth state of the cells;
2. Adherent cells need to be digested with trypsin before collecting the cell suspension, while suspension cells can be directly collected as cell suspension;
3. Centrifuge the cell suspension at 1000 rpm for 5 min and discard the supernatant;
4. Resuspend the cell pellet with the corresponding volume of freezing solution to make the cell density between $1x10^6$-$5x10^6$ cells/mL (the specific cell freezing density can be adjusted according to your own needs);
6. Dispense the resuspended cells into labeled cryotubes at a volume of 0.5 mL to 1 mL per tube and tighten the caps;
7. Immediately place the cryovial into a programmed cooling box, and then place it in a -80°C freezer (upright). After 24 hours, move it into liquid nitrogen for long-term storage.

● **Cell recovery**
1. Prepare 37℃ water, place the required complete culture medium in a water bath and preheat for 30 minutes before starting recovery;
2. Take the cells out of the liquid nitrogen and immediately place them into a 37℃ water bath for rapid thawing (be sure not to submerge the port of the cryovial in water to avoid contamination of the cells). Before the ice is completely thawed, take it out.
3. Centrifuge the cryotube at a centrifugal force of about x150g (about 900rpm) for 1-2 minutes. The specific speed of different centrifuges may vary.
4. After centrifugation, discard the cryopreservation solution, slowly add pre-heated culture medium to the cryopreservation tube, gently resuspend the cells and inoculate them into a T25 or 10 cm dish.
5. Shake the culture vessel to evenly distribute the cells and then place them in a 37°C, saturated humidity cell culture incubator for culture. Continue to culture or change the medium, or perform subculture according to the cell status.

Notes

1. When using this product, pay attention to aseptic operation and avoid contamination.
2. After the frozen cells are packaged into cryopreservation tubes, the storage time at room temperature or 4°C should be reduced. Please move them into a -80°C ultra-low temperature freezer as soon as possible.
3. It is recommended to conduct cryopreservation experiments on each batch of cells to ensure that the

activity of the stored cells is normal.
4. This product is For Research Use Only, Not for Diagnostic Use.