

# **OriCell Mesenchymal Stem Cell NCR Protein-Free Cryopreservation Medium**

Catalog No. GUXMX-07021

## **Product Description:**

OriCell Mesenchymal Stem Cell NCR Protein-free Cryopreservation Medium is a no protein freezing medium of Mesenchymal Stem Cells. The formulation consists of chemically defined compositions only and can be used directly. The cells with this medium can be frozen directly at  $-80^{\circ}\text{C}$  for preservation.

The product is intended for laboratory research use only.

## **Features**

- Special for Mesenchymal Stem Cell
- High cell viability
- Protein-free. Formulate with defined chemical compositions
- Stability and ready to use
- Direct freezing at  $-80^{\circ}\text{C}$ . No need for programmable freezer or programmed freeze process.

## **Packing**

50 mL/ Bottle

20 mL/ Bottle

## **Instructions:**

### **Cryopreservation**

1. Select the cells in logarithmic growth phase according to the methods used to collect cells in vitro. Perform a cell count to determine the viable cell density.
2. Centrifuge the cells for 3-5minutes at 250g,  $20^{\circ}\text{C}$ . Remove the supernatant using a pipette.
3. Resuspend the precipitate with Cryopreservation Medium at the cell density of  $10^5$ - $10^6$  cells/mL.
4. Dispense aliquots of the cell suspension into cryogenic storage vials that are properly labeled.

5. Place the vials directly in a  $-80^{\circ}\text{C}$  refrigerator and transfer the frozen vials to liquid nitrogen for preservation after 24 hours.

## Thawing

1. Remove the cryovial of frozen cells from storage and quickly thaw the vial in  $37^{\circ}\text{C}$  water bath.
2. Gently dilute and mix the cells with 8mL-10mL of cell culture medium.
3. Centrifuge the cells for 3-5minutes at 250g,  $20^{\circ}\text{C}$ .
4. Carefully aspirate as much of the supernatant as possible and add 2-3mL of cell culture medium to resuspend the cells.
5. Transfer the cells into appropriate growth vessel and incubate at  $37^{\circ}\text{C}$  in a 5%  $\text{CO}_2$  humidified incubator.

## Stability/Storage:

Store below  $2-8^{\circ}\text{C}$ . The product is stable below  $2-8^{\circ}\text{C}$  for up to 1 years. The product should be discarded beyond the labeled expiration date.

For optimal performance, repeated warming/cooling and freeze-thawing should be avoided.

## Quality Control:

OriCell Mesenchymal Stem Cell NCR Protein-free Cryopreservation Medium is performance tested on Mesenchymal Stem Cells.

Standard evaluation includes:

1. Sterility test (bacteria, fungi, mold and mycoplasma)
2. pH test
3. Osmolality
4. Endotoxin
5. Pyrogen

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