



User Manual

OriCell™ NCR Cryopreservation Medium

Cat.No.NCRC-10001

PRODUCT DESCRIPTION:

OriCell™ NCR (non controlled-rate) Cryopreservation Medium is a serum-containing and ready-to-use freezing medium. Its formulation has been optimized for stem cells and primary cells, thus greatly enhancing the viability and integrity of these cells by protecting them from damage during the one-step freeze-thaw procedure. Unlike other conventional freezing media, which require a programmed freeze, our product allows the cells to be resuspended and put directly at -80°C.

This product is intended for laboratory research use only. It is not intended for diagnostic, therapeutic, clinical, household, or any other applications.

FEATURES:

- Promotes high cell viability (>90%) for most mammalian cells post-thaw.
- Maintain stem cell pluripotency and normal karyotype.
- Does not affect the proliferation and differentiation properties of cells.
- Cells can be directly frozen at -80°C, thus eliminating the need for a programmed freeze.

PACKAGING:

Available in two sizes: 50mL/Bottle
20mL/Bottle

INSTRUCTIONS:

Cryopreservation

1. Collect cells that are in the logarithmic growth phase. Perform a cell count to determine the viable cell density.
2. Centrifuge the cells for 3-5 minutes at 250 x *g* and 20°C. Remove and discard the supernatant using a pipette.
3. Resuspend the cell pellet in the OriCell™ NCR Cryopreservation Medium at a cell density of 10⁵-10⁶cells/mL.
4. Dispense aliquots of the cell suspension into cryogenic storage vials that are properly labeled.
5. Place the vials directly in a -80°C freezer. After 24 hours, transfer the frozen vials to liquid nitrogen for long-term preservation.

Thawing

1. Remove the cryovial of frozen cells from storage and quickly thaw the vial in a

- 37°C waterbath.
2. Gently dilute and resuspend the cells in 8-10mL of cell culture medium.
 3. Centrifuge the cells for 3-5 minutes at 250 x *g* and 20°C.
 4. Carefully aspirate off as much of the supernatant as possible and add 2-3mL of cell culture medium to resuspend the cells.
 5. Transfer the cells into an appropriate growth vessel with the appropriate amount of growth medium and incubate inside a 37°C incubator with a 5% CO₂ humidified atmosphere.

STABILITY AND STORAGE:

Store at -20°C. This product is stable at -20°C for up to 3 years and should be discarded beyond the labeled expiration date.

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

QUALITY CONTROL:

OriCell™ NCR Cryopreservation Medium has been tested for performance on mesenchymal stem cells. The standard evaluation includes:

- Sterility test (bacteria, fungi and mycoplasma)
- pH test
- Osmolality
- Endotoxin

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