



## ReNcell Neural Stem Cell Freezing Medium

**CATALOG NUMBER:** SCM007

**LOT NUMBER:**

**DESCRIPTION:** ReNcell Neural Stem Cell Freezing Medium is qualified for use with ReNcell immortalized human neural progenitor cell lines, CX (Millipore Catalog No. SCC007) and VM (Millipore Catalog No. SCC008) cultured in serum-free conditions with ReNcell NSC Maintenance Medium (Millipore Catalog No. SCM005). The optimized formulation allows for consistent cryopreservation and high viability upon thawing and plating.

**APPLICATIONS:** Cryopreservation of ReNcell immortalized human CX and VM neural stem cell lines in serum-free conditions.

**PROTOCOL:**

1. Thaw cell culture freezing medium completely and mix well by gently swirling bottle. Keep freezing medium on ice during use.
2. Cells to be frozen should be in late log phase growth.
3. Monolayers will need to be dissociated. After dissociation, cells are resuspended in ReNcell NSC Maintenance Medium (Millipore Catalog No. SCM005) and counted to determine viability and number.
4. Centrifuge cells at 1300 rpm for 3 min. Remove the medium above the pellet.
5. Resuspend the cells in cell culture freezing medium at a concentration of  $\sim 4 \times 10^6$  cells/mL. Freeze 1 mL of cells/vial. After the cells have been resuspended and aliquoted into appropriate cryogenic storage vials, they can be placed in a freezing container and the normal freeze down procedure should be started within five minutes.
6. Cells must be stored at or below  $-80^{\circ}\text{C}$ . For long term storage the cells should be stored in ultra-low temperature freezer ( $-150^{\circ}\text{C}$ ), or in liquid nitrogen ( $-196^{\circ}\text{C}$ ).
7. Thawing of cryopreserved cells should be as follows:
  - a. Thaw cells quickly in a  $37^{\circ}\text{C}$  water bath.
  - b. Dilute one vial of cells into 10 mL of prewarmed ReNcell NSC Maintenance Medium.
  - c. Gently mix the cells in the growth medium.
  - d. Gently pellet the cells and remove the medium above the pellet.
  - e. Resuspend the cells in ReNcell NSC Maintenance Medium with the appropriate concentration of FGF-2 and EGF and plate into the appropriate vessel.

**FORMAT:** Serum-free formulation. Contains 10% DMSO

**STORAGE/  
HANDLING:** Store at  $-20^{\circ}\text{C}$ . Refer to lot expiration date on label.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu\text{L}$  or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*



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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

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