



## ReNcell Neural Stem Cell Maintenance Medium

**CATALOG NUMBER:** SCM005

**LOT NUMBER:**

**QUANTITY:** 500 mL

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### DESCRIPTION:

ReNcell NSC Maintenance Medium is a defined serum-free, growth factor-free medium that has been optimized for the growth and in vitro differentiation of ReNcell immortalized human neural progenitor cells. When used in conjunction with FGF and EGF, the maintenance medium will allow for the proliferation of ReNcell immortalized VM and CX neural stem cells. Withdrawal of the growth factors from ReNcell NSC Maintenance Medium will result in the spontaneous differentiation of ReNcell immortalized neural progenitor cells.

*For Research Use Only; not for use in diagnostic procedures*

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### COMPOSITION:

ReNcell NSC Maintenance Medium contains DMEM/F12 w/o HEPES, w/ L-Glutamine, L-glutamine, human serum albumin, human transferrin, putrescine dihydrochloride, human recombinant insulin, L-thyroxine, tri-iodo-thyronine, progesterone, sodium selenite, heparin, and corticosterone.

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### QUALITY CONTROL:

Each lot of medium is tested for the optimal cell growth, proliferation and differentiation of ReNcell immortalized human neural progenitor cells.

Sterility Testing: Negative

Osmolarity: 299

PH: 7.4

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### MATERIALS REQUIRED BUT NOT SUPPLIED:

1. ReNcell CX Immortalized Cell Line (Millipore Cat. No. SCC007)
2. ReNcell VM Immortalized Cell Line (Millipore Cat. No. SCC008)
3. Basic fibroblast growth factor (bFGF; FGF-2; Specific Activity  $\geq 2 \times 10^6$  Units/mg. Millipore Cat. No. GF003)
4. Epidermal growth factor (EGF; Specific Activity  $\geq 1 \times 10^7$  Units/mg; Millipore Cat. No. GF001)
5. Laminin (Millipore Cat. No. CC095)
6. DMEM/F12 w/o HEPES, w/ L-Glutamine (Millipore Cat. No. DF-042-B)
7. Penicillin streptomycin (Millipore Cat. No. TMS-AB2-C)
8. Accutase™ (Millipore Cat. No. SCR005)
9. Tissue culture-ware
10. Phosphate-Buffered Saline (1X PBS) (Millipore Cat. No. BSS-1005-B)



11. Fixative (e.g. 4% Paraformaldehyde in 1X PBS)
12. Blocking Solution (5% normal donkey serum, 0.3% Triton X-100 in 1X PBS)
13. Primary and secondary antibodies
14. 4'-6-Diamidino-2-phenylindole (DAPI) / PBS solution
15. Anti-fading mounting solution (DABCO/PVA)
16. Hemacytometer
17. Microscope

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#### STORAGE/HANDLING:

SCM005, ReNcell Neural Stem Cell Maintenance Medium should be stored at -20°C until ready to use. Upon thawing, the maintenance medium should be stored at 2-8°C and given a 1-month expiration dating.

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#### PROTOCOLS:

Cell Culture protocols for use with ReNcell Immortalized cells are available in the data sheets that accompany the ReNcell CX Immortalized Cell Line (Millipore Cat. No. SCC007) or the ReNcell VM Immortalized Cell Line (Millipore Cat. No. SCC008).

**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  $\mu$ 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.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC  
PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

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