

ReNcell Neural Stem Cell Maintenance Medium

CATALOG NUMBER: SCM005

LOT NUMBER:

QUANTITY: 500 mL

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

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.

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

MATERIALS REQUIRED BUT NOT SUPPLIED:

1. ReNcell CX Immortalized Cell Line (CHEMICON® Cat. No. SCC007)
2. ReNcell VM Immortalized Cell Line (CHEMICON® Cat. No. SCC008)
3. Basic fibroblast growth factor (bFGF; FGF-2; Specific Activity $\geq 2 \times 10^6$ Units/mg. CHEMICON® Cat. No. GF003)
4. Epidermal growth factor (EGF; Specific Activity $\geq 1 \times 10^7$ Units/mg; CHEMICON® Cat. No. GF001)
5. Laminin (Sigma Cat. No. L-2020)
6. DMEM/F12 w/o HEPES, w/ L-Glutamine (CHEMICON® Cat. No. DF-042-B)
7. Penicillin streptomycin (CHEMICON® Cat. No. TMS-AB2-C)
8. Accutase™ (CHEMICON® Cat. No. SCR005)
9. Tissue culture-ware
10. Phosphate-Buffered Saline (1X PBS) (CHEMICON® 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

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.

PROTOCOLS:

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

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