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# NDiff™ NEURO-27 MEDIUM SUPPLEMENT (100X)

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| **CATALOG NUMBER:** | SCM013 | **QUANTITY:** | 10 mL |
| **LOT NUMBER:** | | **CONCENTRATION:** | 100X |

**DESCRIPTION:** NDiff Neuro-27 Medium Supplement is a serum-free supplement specifically developed for the *in vitro* propagation and maintenance of undifferentiated murine embryonic stem (ES) cells in serum free medium[2]. This product can also be used to differentiate murine ES cells into post-mitotic neurons particularly via monolayer differentiation[3-4].

**FORMULATION:** NDiff Neuro-27 Medium Supplement has been 0.22 micron filtered and is supplied as an aqueous solution. Optimal working concentration of the medium supplement must be determined for specific uses and cell types. In most instances, a 1:40-1:200 dilution is appropriate. Typically, Neuro-27 is diluted 1:100 for self renewal and neural differentiation of mouse ES cells.

**FORMAT:** Frozen liquid.

**STORAGE/HANDLING:** Maintain at -20 °C until expiration date. Protect from light. Once thawed, aliquot unused portion into smaller volumes and store at -20 °C until future use. Once added to the cell culture medium, the product is stable at 4 °C for four weeks.

**REFERENCES:**


1. Brewer GJ, Cotman CW. (1989) Survival and growth of hippocampal neurons in defined medium at low density: advantages of a sandwich culture technique or low oxygen. *Brain Res.* **494**:65-74

2. Nichols J, Ying QL. (2006) Derivation and propagation of embryonic stem cells in serum- and feeder-free culture. *Methods Mol Biol.* **329**:91-8.

3. Ying QL, Smith AG. (2003) Defined conditions for neural commitment and differentiation. *Methods Enzymol.* **365**:327-41.

4. Ying QL, Stavridis M, Griffiths D, Li M, Smith A. (2003) Conversion of embryonic stem cells into neuroectodermal precursors in adherent monoculture. *Nat Biotechnol.* **21(2)**:183-6.


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




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