



NDiff™ NEURO-2 MEDIUM SUPPLEMENT (200X)

CATALOG NUMBER:	SCM012	QUANTITY:	5 mL
LOT NUMBER:		CONCENTRATION:	200X
DESCRIPTION:	NDiff Neuro-2 Medium Supplement is a serum-free N2-like supplement developed for the <i>in vitro</i> differentiation of murine embryonic stem (ES) cells into post-mitotic neurons particularly via monolayer differentiation ¹⁻³ . This product may also be used in the derivation, propagation and maintenance of mouse NS neural stem cells ⁴⁻⁶ .		
FORMULATION:	NDiff Neuro-2 Medium Supplement contains Insulin, Apo-Transferrin, Sodium Selenite, Putrescine, and Progesterone. This media supplement has been 0.22 micron filtered and is supplied as a 200X stock that should be added to the cell culture medium at a final concentration of 1X.		
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. Nichols J, Ying QL. (2006) Derivation and propagation of embryonic stem cells in serum- and feeder-free culture. <i>Methods Mol Biol.</i> 329:91-8. 2. Ying QL, Smith AG. (2003) Defined conditions for neural commitment and differentiation. <i>Methods Enzymol.</i> 365:327-41. 3. Ying QL, Stavridis M, Griffiths D, Li M, Smith A. (2003) Conversion of embryonic stem cells into neuroectodermal precursors in adherent monoculture. <i>Nat Biotechnol.</i> 21(2):183-6. 4. Conti L, Reitano E, Cattaneo E. (2006) Neural stem cell systems: diversities and properties after transplantation in animal models of diseases. <i>Brain Pathol.</i> 16(2):143-54. 5. Pollard SM, Conti L, Sun Y, Goffredo D, Smith A. (2006) Adherent neural stem (NS) cells from fetal and adult forebrain. <i>Cereb Cortex.</i> 16 Suppl 1:i112-20. 6. Conti L, Pollard SM, Gorba T, Reitano E, Toselli M, Biella G, Sun Y, Sanzone S, Ying QL, Cattaneo E, Smith A. (2005) Niche-independent symmetrical self-renewal of a mammalian tissue stem cell. <i>PLoS Biol.</i> 3(9):e283.		

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