

NDiff[™] NEURO-27 MEDIUM SUPPLEMENT (100X)

CATALOG NUMBER:	SCM013	QUANTITY:	10 mL
LOT NUMBER:		CONCENTRATION:	100x
DESCRIPTION:	Serum-free supplements containing antioxidants and other factors that have been developed for the growth and differentiation of specific cell types ¹ . NDiff [™] Neuro-27 Medium Supplement has been specifically developed for the <i>in vitro</i> 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 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. Product is supplied non-sterile. Complete medium must be filtered prior to use.		
REFERENCES:	<ol style="list-style-type: none">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. <i>Brain Res.</i> 494:65-742. Nichols J, Ying QL. (2006) Derivation and propagation of embryonic stem cells in serum- and feeder-free culture. <i>Methods Mol Biol.</i> 329:91-8.3. Ying QL, Smith AG. (2003) Defined conditions for neural commitment and differentiation. <i>Methods Enzymol.</i> 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. <i>Nat Biotechnol.</i> 21(2):183-6.		

© 2006: CHEMICON International, Inc. - By CHEMICON International, Inc. All rights reserved. No part of these works may be reproduced in any form without permissions in writing.

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.

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 µL 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.*