



**Neural Stem Cell Expansion Medium
(NSCEM) (Formerly known as NEM)**
Catalog #5941

Product Description

Neural Stem Cell Expansion Medium (NSCEM), when used with Neural Stem Cell Expansion Growth Supplement (NSCEGS, Cat #5992) is a complete medium designed for optimal growth of mammalian neural stem cells *in vitro*. It is a sterile, liquid medium which contains essential and non-essential amino acids, vitamins, organic and inorganic compounds, hormones, growth factors and trace minerals. The medium is HEPES and bicarbonate buffered and has a pH of 7.4 when equilibrated in an incubator with an atmosphere of 5% CO₂/95% air. The medium is formulated (quantitatively and qualitatively) to provide an optimally balanced nutritional environment that selectively supports the growth of mammalian neural stem cells *in vitro*.

Components

NSCEM consists of 100 ml of basal medium and 2 ml of Neural Stem Cell Expansion Growth Supplement (NSCEGS, Cat #5992). *Note: NSCEGS is not pre-mixed in NSCEM; it must be added separately to make the complete NSCEM.*

Product Use

NSCEM is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

Storage

Store the basal medium at 4°C and the NSCEGS at -20°C. Protect from light.

Shipping

Basal medium: room temperature. Supplements: dry ice.

Instructions for Use

Thaw NSCEGS at room temperature. Spray the medium bottle and tubes with 70% ethanol, and wipe to remove excess liquid. In a sterile field, remove the caps without touching the interior threads with fingers. Add NSCEGS to the medium and mix well. Since several components are light-labile, the medium should not be exposed to light for extended periods. We do not recommend warming medium in a 37°C water bath prior to use. When stored in the dark at 4°C, the reconstituted medium is stable for one month.

Caution: If handled improperly, some components of the medium may present a health hazard. Take appropriate precautions when handling it, including the wearing of protective clothing and eyewear. Dispose of properly.