ScienCell™
Research Laboratories

Neuronal Growth Supplement (NGS)

Catalog Number: 1562

Product Description

Neuronal Growth Supplement (NGS) is a medium supplement designed for the optimal growth of normal human neurons *in vitro*. It is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal human neurons. The supplement is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced growth environment that maximally promotes the growth of normal human neurons *in vitro*. The supplement is designed as an additive for neuronal medium (NM, Cat. No. 1521) and should be used in conjunction with that medium.

Components

NGS is packaged in the quantity of supplement suited for a 500 ml bottle of NM. When a 500 ml bottle of NM is supplemented with NGS, the final concentrations of the supplement components per milliliter will be BSA 10 µg, dcAMP 10 µg, insulin 5 µg, FGF-2 2 ng, IGF-I 2 ng, NGF 2 ng, hydrocortisone 1 µg, progesterone 20 nM and retinoic acid 100 nM.

Product Use

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

Storage

Store NGS at -20°C before adding to neuronal medium.

Shipping

Dry ice.

Prepare for use

Thaw NGS at 37°C. Gently tilt the NGS tube several times during thawing to help the contents dissolve. Make sure the contents of the supplement are completely dissolved into solution before adding to the medium. Rinse the bottle and tubes with 70% ethanol, and then wipe to remove excess. Remove the cap, being careful not to touch the interior threads with fingers. Add NGS and other component (P/S solution) into medium in a sterile field, mix well and then the reconstituted medium is ready for use. Since several components of NM are light-labile, it is recommended that the medium not be exposed to light for lengthy periods of time. If the medium is warmed prior to use, do not exceed 37°C. 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.