Astrocyte Growth Supplement-Animal (AGS-a)

Catalog Number: 1882

Product Description

Astrocyte Growth Supplement-Animal (AGS-a) is a medium supplement designed for the optimal growth of normal animal (rat or mouse) astrocytes *in vitro*. It is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal animal astrocytes. The supplement is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced growth environment that maximally promotes the growth of normal animal astrocytes *in vitro*. The supplement is designed as an additive for astrocyte medium-animal (AM-a, Cat. No. 1831) and should be used in conjunction with that medium.

Components

AGS-a is packaged in the quantity of supplement suited for a 500 ml bottle of astrocyte medium-animal. When a 500 ml bottle of astrocyte medium-animal is supplemented with AGS-a, the final concentrations of the supplement components per milliliter will be BSA 100 µg, apo-transferrin 10 µg, insulin 5 µg, EGF 5 ng, FGF-2 2 ng, IGF-I 2 ng, hydrocortisone 1 µg and progesterone 20 nM.

Product Use

AGS 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 AGS-a at -20°C before adding to astrocyte medium-animal.

Shipping

Dry ice.

Prepare for use

Thaw AGS-a at 37°C. Gently tilt the AGS-a 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 AGS-a and P/S solution into basal medium in a sterile field and mix well—the reconstituted medium is now ready for use. Since several components of astrocyte medium 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.