



Trophoblast Growth Supplement (TGS)

Catalog Number: 7152

Product Description

Trophoblast Growth Supplement (TGS) is a medium supplement designed for the optimal growth of normal human trophoblasts *in vitro*. It is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal human trophoblasts. The supplement is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced growth environment that maximally promotes the growth of normal human mesenchymal stem cells *in vitro*. The supplement is designed as an additive for Trophoblast Medium (TM, Cat. No. 7201) and should be used in conjunction with that medium.

Components

TGS is packaged in the quantity of supplement suited for a 500 ml bottle of TM. When a 500 ml bottle of TM is supplemented with TGS, the final concentrations of the supplement components per milliliter will be BSA 10 µg, apo-transferrin 10 µg, insulin 5 µg, EGF 2 ng, FGF-2 2 ng and hydrocortisone 1 µg.

Product Use

TGS 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 TGS at -20°C before adding to Trophoblast Medium.

Shipping

Dry ice.

Prepare for use

Thaw TGS at 37°C. Gently tilt the TGS 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 TGS and other components (FBS and P/S solution) into basal medium in a sterile field, mix well and then the reconstituted medium is ready for use. Since several components of TM 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.