



Cardiac Myocyte Growth Supplement (CMGS)

Catalog Number: 6252

Product Description

Cardiac Myocyte Growth Supplement (CMGS) is a medium supplement designed for the optimal growth of normal human cardiac myocytes *in vitro*. It is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal human cardiac myocytes. The supplement is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced growth environment that maximally promotes the growth of normal human cardiac myocytes *in vitro*. The supplement is designed as an additive for cardiac myocyte medium (CMM, Cat. No. 6201) and should be used in conjunction with that medium.

Components

CMGS is packaged in the quantity of supplement suited for a 500 ml bottle of cardiac myocyte medium. When a 500 ml bottle of cardiac myocyte medium is supplemented with CMGS, 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, IGF-I 2 ng, hydrocortisone 1 µg and retinoic acid 10^{-8} M.

Product Use

CMGS 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 CMGS at -20°C before adding to stellate cell medium.

Shipping

Dry ice.

Prepare for use

Thaw CMGS at 37°C. Gently tilt the CMGS 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 CMGS 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 cardiac myocyte 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.