



## Mesenchymal Stem Cell Growth Supplement-serum free (MSCGS-sf)

Catalog Number: 7562

### Product Description

Mesenchymal Stem Cell Growth Supplement serum free (MSCGS-sf) is a medium supplement designed for the optimal growth of human primary mesenchymal stem cells (MSCs) *in vitro*. It is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal human MSCs. The supplement is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced serum free growth environment that maximally promotes the growth of human primary MSCs *in vitro*. The supplement is designed as an additive for mesenchymal stem cell serum free medium (MSCM-sf, Cat. No. 7511) and should be used in conjunction with that medium.

### Components

MSCGS-sf is packaged in the quantity of supplement suited for a 500 ml bottle of mesenchymal stem cell serum free medium. MSCGS-sf consists of BSA, apo-transferrin, insulin, EGF, FGF-2, other growth factors (proprietary information) and hydrocortisone.

### Product Use

MSCGS-sf 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 MSCGS-sf at -20°C before adding to basal medium.

### Shipping

Dry ice.

### Prepare for use

Thaw MSCGS-sf at 37°C. Gently tilt the MSCGS-sf 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 MSCGS-sf 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 MSCM-sf 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.*