



**Mesangial Cell Growth Supplement  
(MsCGS)**  
Catalog #4252

**Product Description**

Mesangial Cell Growth Supplement (MsCGS) is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for the culture of normal mesangial cells. The supplement is formulated (quantitatively and qualitatively) to provide an optimally balanced environment that selectively supports the growth of normal mesangial cells *in vitro*.

**Product Use**

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

**Storage**

Store MsCGS at -20°C; once added to medium, store at 4°C and protect from light. Do not refreeze after thawing.

**Shipping**

Dry ice.

**Instructions for Use**

For best results, use MsCGS in conjunction with 500 ml Mesangial Cell Medium-b (MsCM-b, Cat #4201-b) and 10 ml fetal bovine serum (FBS, Cat #0010).

Thaw MsCGS at 37°C. Gently tilt the tube several times to ensure complete mixing. Spray the medium bottle and supplement tube with 70% ethanol and wipe to remove excess liquid. In a sterile field, remove the caps without touching the interior threads with fingers. Add MsCGS to the basal medium and mix well. Since several components are light-labile, the medium should not be exposed to light for extended periods. We do not recommend warming medium in a 37°C water bath prior to use. 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.*