



## **Mesenchymal Stem Cell Osteogenic Differentiation Supplement (MODS)**

Catalog #7532

### **Product Description**

Mesenchymal Stem Cell Osteogenic Differentiation Supplement (MODS) is a sterile, concentrated (100X) solution which contains growth factors, hormones, and proteins necessary for Mesenchymal Stem Cells differentiation. The supplement is formulated to provide the differentiation of primary mesenchymal stem cells to an osteogenic lineage as determined by Alizarin Red staining *in vitro*.

### **Product Use**

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

### **Storage**

Store MODS 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 MODS in conjunction with 500 mL Mesenchymal Stem cell Osteogenic Differentiation Medium-b (MODM-b, Cat #7531-b) and 25 mL fetal bovine serum (FBS, Cat #0025).

Thaw MODS 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 MODS 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.*