



**Mesenchymal Stem Cell Osteogenic Differentiation Medium-basal  
(MODM-b)**  
Catalog #7531-b

**Product Description**

Mesenchymal Stem Cell Osteogenic Differentiation Medium-basal (MODM-b), when used with Mesenchymal Stem Cell Osteogenic Differentiation Supplement (MODS, Cat #7532) and 25 ml of fetal bovine serum, is a complete medium designed for the optimal osteogenic differentiation of mesenchymal stem cell (MSCs) *in vitro*. It is a sterile, liquid medium which contains essential and non-essential amino acids, vitamins, organic and inorganic compounds, hormones, growth factors, trace minerals, and a low concentration of fetal bovine serum (5%). The medium is HEPES and bicarbonate buffered and has a pH of 7.4 when equilibrated in an incubator with an atmosphere of 5% CO<sub>2</sub>/95% air.

**Components**

MODM-basal consists of 500 ml of basal medium.

**Product Use**

MODM-b 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 basal medium at 4°C. Protect from light.

**Shipping**

Room temperature.

*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.*