



Mesenchymal Stem Cell Osteogenic Differentiation Medium-basal (MODM-b)

Catalog Number: 7531-b

Product Description

Mesenchymal Stem Cell Osteogenic Differentiation Medium-basal (MODM-b) is a basal medium designed for the optimal osteogenic differentiation of mesenchymal stem cell (MSCs) *in vitro* in conjunction with fetal bovine serum (FBS, Cat. No. 0025), mesenchymal stem cell osteogenic differentiation supplement (MODS, Cat. No. 7532-5), and penicillin/streptomycin solution (P/S, Cat. No. 0503). It is a sterile, liquid medium which contains essential and non-essential amino acids, vitamins, organic and inorganic compounds, and trace minerals. The basal medium does not contain antimycotics, antibiotics, hormones, growth factors or proteins. The medium is HEPES and bicarbonate buffered and has a pH of 7.4 when equilibrated in an incubator with an atmosphere of 5% CO₂/95% air. The medium is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced nutritional environment that selectively promotes osteogenic differentiation of normal human mesenchymal stem cells *in vitro*.

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 at 4°C. Protect from light.

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.