



**3D-Osteoblast Spheroid Medium**  
**(3D-OSpM)**  
Catalog #3D-4601

**Product Description**

3D-Osteoblast Spheroid Medium (3D-OSpM) is a specialized medium designed for the generation and maintenance of spheroids consisting of human osteoblasts *in vitro* in conjunction with fetal bovine serum (FBS, Cat. #0010) and 3D-osteoblast spheroid supplement (3D-OSpS, Cat. #3D-4652). 3D-OSpM is a sterile, viscous medium which contains essential and non-essential amino acids, vitamins, organic and inorganic compounds, and trace minerals. The medium is 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**

3D-OSpM consists of 200 ml of basal medium, 10 mL of FBS (Cat. #0010), 2 mL of 3D-osteoblast spheroid supplement (3D-OSpS, Cat. #3D-4652), and 2 mL penicillin/streptomycin solution (P/S, Cat. #0583). *Note: 3D-OSpS, FBS, and P/S are not pre-mixed in the 3D-OSpM; they must be added separately to make the complete medium.*

**Product Use**

3D-OSpM 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 and the 3D-OSpS, FBS, and P/S solution at -20°C. Protect from light.

**Shipping**

Basal medium: room temperature. Supplements: dry ice.

**Instructions for Use**

Thaw 3D-OSpS, FBS, and P/S solution at 37°C. Gently tilt the tubes several times to ensure the contents are completely mixed before adding to the medium. Spray the medium bottle and tubes with 70% ethanol and wipe to remove excess liquid. In a sterile field, remove the caps without touching the interior threads with fingers. Add 3D-OSpS, FBS, and P/S solution to the medium and mix carefully. Gentle mixing of the viscous 3D culture medium is recommended to avoid bubble formation. 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.*