



**Mesenchymal Stem Cell Medium-phenol red free  
(MSCM-prf)**  
Catalog #7501-prf

**Product Description**

Mesenchymal Stem Cell Medium-phenol red free (MSCM-prf), when used with Mesenchymal Stem Cell Growth Supplement (MSCGS, Cat #7552) and 25 ml of fetal bovine serum (FBS) is a complete medium designed for optimal growth of normal mesenchymal stem cells *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 FBS (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. The medium is formulated (quantitatively and qualitatively) to provide an optimally balanced nutritional environment that selectively supports the growth of normal mesenchymal stem cells *in vitro*.

**Components**

MSCM-prf consists of 500 ml of basal medium, 25 ml of FBS (Cat. #0025), 5 ml of Mesenchymal Stem Cell Growth Supplement (MSCGS, Cat. #7552) and 5 ml of penicillin/streptomycin solution (P/S, Cat. #0503). *Note: FBS, MSCGS and P/S are not pre-mixed in MSCM-prf; they must be added separately to make the complete MSCM-prf.*

**Product Use**

MSCM-prf 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 MSCGS, FBS and P/S solution at -20°C. Protect from light.

**Shipping**

Basal medium: room temperature. Supplements: dry ice.

**Instructions for Use**

Thaw MSCGS, 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 MSCGS, FBS and P/S solution to the 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.*