



**Smooth Muscle Cell Medium-serum free  
(SMCM-sf)  
Catalog #1111**

**Product Description**

Smooth Muscle Cell Medium-serum free (SMCM-sf), when used with Smooth Muscle Cell Growth Supplement-serum free (SMCGS-sf, Cat #1162), is a complete medium designed for optimal growth of normal smooth muscle 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 and trace minerals. 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 smooth muscle cells *in vitro*.

**Components**

SMCM-sf consists of 500 ml of basal medium, 5 ml of Smooth Muscle Cell Growth Supplement-serum free (SMCGS-sf, Cat. #1162) and 5 ml of penicillin/streptomycin solution (P/S, Cat. #0503). *Note: SMCGS-sf and P/S are not pre-mixed in SMCM-sf; they must be added separately to make the complete SMCM-sf.*

**Product Use**

SMCM-sf 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 SMCGS-sf and P/S solution at -20°C. Protect from light.

**Shipping**

Basal medium: room temperature. Supplements: dry ice.

**Instructions for Use**

Thaw SMCGS-sf and P/S solution at 37°C. Gently tilt the tubes several times to ensure complete mixing. 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 SMCGS-sf and P/S 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.*