



**STEMium™ Human Pluripotent Stem Cell Growth Medium-Xeno Free
(STEMium-xf™)**
Catalog Number: 5811

Product Description

STEMium-xf™ is a xeno-free medium designed for optimal growth of human embryonic stem cells and induced pluripotent stem cells under feeder-free conditions. It is a sterile, liquid medium containing essential and non-essential amino acids, vitamins, organic and inorganic compounds, hormones, growth factors and trace minerals. It is made with synthetic, plant-derived, and human-derived components and is free of bovine and other animal-derived components. The medium is bicarbonate buffered and has a pH of 7.4 when equilibrated in an incubator with an atmosphere of 5% CO₂/ 95% air. STEMium™ is formulated (quantitatively and qualitatively) to provide an optimally balanced nutritional environment that selectively promotes growth of normal human embryonic stem cells and induced pluripotent stem cells *in vitro*. This medium should be used in conjunction with Geltrex™ or BD Matrigel™ for feeder-free culture conditions.

Components

STEMium-xf™ consists of 500 mL of basal medium and 10 mL of Xenofree Human Pluripotent Stem Cell Growth Supplement (StemGS-xf®, Cat #5862). *Note: StemGS-xf® is not pre-mixed in STEMium-xf™ ; they must be added separately to make the complete STEMium-xf™.*

Product Use

STEMium-xf™ 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 StemGS-xf® at -20°C. Protect from light.

Shipping

Basal medium: room temperature. Supplement: dry ice.

Instructions for use

Thaw StemGS-xf® 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 StemGS-xf® 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.

Rev. 1

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.