



**STEMium™ Human Pluripotent Stem Cell Growth Medium-animal
component free
(STEMium-acf™)
Catalog Number: 5821**

Product Description

STEMium-acf™ is an animal component 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 and plant-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 pluripotent stem cells *in vitro*. This medium should be used in conjunction with Geltrex™ or BD Matrigel™ for feeder-free culture conditions.

Components

STEMium-acf™ consists of 500 mL of basal medium and 10 mL of Human Pluripotent Stem Cell Growth Supplement-Animal Component Free (StemGS-acf®, Cat. #5872). *Note: StemGS-acf® is not pre-mixed in ECM; they must be added separately to make the complete ECM.*

Product Use

STEMium-acf™ 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-acf® 50X at -20°C. Protect from light.

Shipping

Basal medium: room temperature. Supplement: dry ice.

Prepare for use

Thaw StemGS-acf® 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-acf® 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.