Cardiomyocyte Growth Medium (CGM)

Catalog #5901D

Product Description

Cardiomyocyte Growth Medium (CGM) is a complete medium designed for optimal growth of human cardiomycotyes *in vitro*. It is a sterile, liquid medium containing essential and non-essential amino acids, vitamins, organic and inorganic compounds, hormones, growth factors and trace minerals. The medium is serum-free. It is HEPES and bicarbonate buffered and has a pH of 7.4 when equilibrated in an incubator with an atmosphere of 5% CO_2/95% air. The medium is formulated (quantitatively and qualitatively) to provide a defined and optimally balanced nutritional environment that selectively promotes growth of differentiated human cardiomyocytes *in vitro.*

This medium is intended to be used as a supplemental growth medium for cardiomyocytes that were differentiated using the Human Pluripotent Stem Cell Cardiomyocyte Differentiation Kit (PSCCDK, Cat. #5901). For more information regarding its use for differentiation, other materials required, and troubleshooting guides, please see the 5901 product sheet.

Components

CGM consists of 250 ml of basal medium and 5 ml of Cardiomyocyte Growth Medium Supplement (CGMS, Cat. #5952).

Product Use

CGM 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 4ºC and store the CGMS at -20ºC. Protect from light.

Shipping

Basal medium is shipped at room temperature and all other components are shipped on dry ice.

Instructions for use

Thaw CGMS at 37ºC. Gently tilt the CGMS tube several times to ensure the contents are completely dissolved before adding to the medium. Rinse the bottle and tubes with 70% ethanol and wipe to remove excess ethanol. In a sterile field, remove the cap, being careful not to touch the interior threads with fingers. Add CGMS 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 37ºC water bath prior to use.

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.