



## Cardiomyocyte Growth Medium (CGM)

Catalog #5901D

### Product Description

Cardiomyocyte Growth Medium (CGM) is a complete medium designed for optimal growth of human cardiomyocytes *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<sub>2</sub>/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 4°C and store the CGMS at -20°C. 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 37°C. 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 37°C 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.*