

## PRODUCT DESCRIPTION

StemXVivo™ Cardiomyocyte Maintenance Media Supplement is a serum-free supplement specially optimized for extended culture of cardiomyocytes derived from human pluripotent stem cells. This formulation has been used to maintain stem cell-derived cardiomyocytes for longer than 200 days in culture. The supplement is supplied as a 50X concentrated solution.

## STORAGE

Store in the dark at  $\leq -20$  °C in a **manual defrost freezer**. Do not use past the expiration date.

## PRECAUTION

This product contains human transferrin. This human source material was tested at the donor level using an FDA licensed method and found to be non-reactive for anti-HIV-1/2 and Hepatitis B surface antigen. As no testing can offer complete assurance of freedom from infectious agents, these reagents should be handled as if capable of transmitting infection.

## CARDIOMYOCYTE MAINTENANCE MEDIA PREPARATION

Dilute the StemXVivo Cardiomyocyte Maintenance Media Supplement 50-fold in RPMI 1640. Add 0.5 mM 1X GlutaMAX and 1X Penicillin/Streptomycin (optional). Store the Cardiomyocyte Maintenance Media **in the dark** at 2-8 °C for up to two weeks.

## CARDIOMYOCYTE MAINTENANCE MEDIA USE

Human pluripotent stem cells are differentiated into cardiomyocytes using the StemXVivo Cardiomyocyte Differentiation Kit (R&D Systems, Catalog # SC032) until widespread beating is observed in the culture. StemXVivo Cardiomyocyte Maintenance Media can then be used to maintain the differentiated cells for extended culture. Media should be replaced daily.

**Note:** *Repeated mechanical stress can negatively affect cell attachment and survival. For extended culture, daily media exchanges should be handled as gently as possible.*