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 ≤ -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 # SC032B) 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.