# Cardiomyocyte Cellutions Differentiation Medium

**CAT NUMBER:** P60142

## PRODUCT DESCRIPTION:
DV Biologics has developed Cardiomyocyte Cellutions Differentiation Medium for the optimal maintenance of human cardiomyocytes. This medium formulation is designed to optimally maintain our cardiomyocytes at any developmental stage. DV Biologics Cardiomyocyte Cellutions Differentiation Medium has been tested and optimized using our cardiomyocytes. When used in conjunction with our cardiomyocytes, DV Biologics guarantees optimal maintenance of our cells.

Cardiomyocyte Cellutions Differentiation Medium contains animal derived products.

## HANDLING INSTRUCTIONS:
C-MDiff-001 media is shipped at 4°C. Upon arrival place into 4°C. Medium is light sensitive, therefore, caution must be taken when exposing it to light.

Using Cardiomyocytes Cellutions Differentiation Medium:
1. Add C-MDiff-001-S (growth supplement); must be kept frozen at -20°C or -80°C until ready to use.
   - Thaw in a 37°C water bath or overnight in a refrigerator at 4°C.

Not included: 5-azacytidine (5-Aza) and TGF-beta 1
2. Add 5-Azacytidine at a final concentration of 10 μM to the C-MDiff-001 media. Add the 5-Aza fresh daily to the media for three consecutive days. Keep 5-Aza protected from light at all times.
3. After the three consecutive days of the addition of 5-Aza, refresh media without use of 5-Aza. The following day prepare fresh aliquots of C-MDiff-001 media containing TGF beta-1 at a final concentration of 1 ng/mL.

For detailed protocol please refer to Cardiac Progenitor Cell Manual (QA-PD0007).

## QUALITY CONTROL:
Media (C-MDiff-001-500) and supplements undergo sterility testing to assure it is free from bacterial and fungal contamination. The media has been tested via culture systems which have been optimized for the growth of cardiomyocytes. This leads to optimal growth parameters. In addition, pH, osmolality, endotoxin testing, and other parameters are evaluated in order to meet standards required for optimal growth of cardiomyocytes.

## STORAGE CONDITIONS:
- **Media:** Store in the dark. Long term storage at 4°C.
- **Supplement:** Store in the dark. Long term storage at -20°C.