

iCell® Cardiac Co-Culture Supplements Kit

Overview

These supplements are combined with iCell® Cardiomyocytes Maintenance Medium (iCMM) to make Complete iCell Cardiac Co-Culture Medium. The complete medium can be used for co-culturing iCell Cardiac Fibroblasts and iCell Endothelial Cells with iCell Cardiomyocytes or iCell Cardiomyocytes². The iCell Cardiac Fibroblasts will proliferate in the complete iCell Cardiac Co-Culture Medium and is the media of choice for the fibrosis assay. The iCell Cardiomyocytes Maintenance Medium is sold separately and supplied as part of the iCell Cardiomyocytes kit or iCell Cardiac Fibroblasts kit (see Table 1).



Refer to the cells User's Guides for thawing and plating instructions. Do NOT thaw and plate directly into the Complete iCell Cardiac Co-Culture Medium.

Handling and Storage

Upon receipt, immediately transfer components to the proper storage temperature.

Kit Components	Catalog #	Storage Temperature
iCell Cardiac Co-Culture Supplement A	M1047	4°C
iCell Cardiac Co-Culture Supplement B	M1050	-20°C

Preparing the Complete Medium

- Thaw iCell Cardiomyocytes Maintenance Medium overnight at 4°C.
- Equilibrate iCell Cardiac Co-Culture Supplement A and iCell Cardiac Co-Culture Supplement B to room temperature.
- Combine contents of iCell Cardiac Co-Culture Supplements A (25 ml) and B (250 µl) into the iCell Cardiomyocytes Maintenance Medium bottle in a biological safety cabinet

Note: Add 1.25 mL of Penicillin/Streptomycin if desired



Do not sterile filter the complete iCell Cardiac Co-Culture Medium

- 4. Store at 4°C for up to 3 weeks.
- Equilibrate the complete iCell Cardiac Co-Culture Medium to room temperature before each use.

Table 1: Companion iCell Products

Product	Catalog #
iCell Cardiomyocytes Maintenance Medium¹	M1003
iCell Cardiomyocytes, 01434	R1007, R1057
iCell Cardiomyocytes, 11713	R1105, R1106
iCell Cardiomyocytes ² , 01434	R1017, R1059
iCell Cardiac Fibroblasts	R1256, R1257
iCell Endothelial Cells	C1235, C1236

¹ iCell Cardiomyocytes, iCell Cardiomycytes², and iCell Cardiac Fibroblast Kits are supplied with iCell Cardiomyocytes Maintenance Medium.

Table 2: Co-Culture Application Protocols

Application Protocols¹

Generation of 3D CardioSpheres with iCell® Products

Contacting Technical Support

Email: fcdi-support@fujifilm.com Phone: 1-877-320-6688

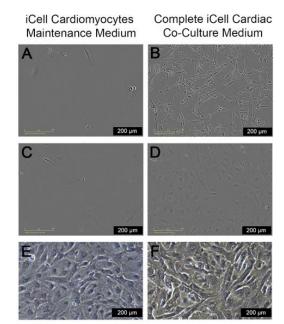


Figure 1: Complete iCell Cardiac Co-Culture Medium supports iCell Cardiomyocytes, iCell Cardiac Fibroblasts, and iCell Endothelial Cells in 2D culture.

iCell Cardiac Fibroblasts, 01434 were plated at 10k/cm² for 72 hours in (A) iCMM and (B) Complete iCell Cardiac Co-Culture Medium. iCell Endothelial Cells, 01434 were plated at 33k/cm² for 72 hours in (C) iCMM and (D) Complete iCell Cardiac Co-Culture Medium. (E) iCell Cardiomyocytes cultured in iCMM, (F) iCell Cardiomyocytes cultured in iCell Cardiac Co-Culture Medium.

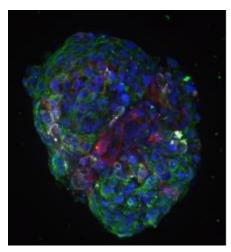


Figure 2: iCell Cardiac Co-Culture Medium supports the co-culture of iCell Cardiomyocytes (green, anti-cTNT), iCell Cardiac Fibroblasts (red, anti-TE7), and iCell Endothelial Cells (gray, anti-CD31) and Nuclei (blue, Hoechst) in 3D culture (CardioSpheres).

¹ Available at www.fujifilmcdi.com

The cells are FOR RESEARCH USE ONLY and NOT FOR THERAPEUTIC USE. See www.fujifilmcdi.com/terms-and-conditions/ for USE RESTRICTIONS applicable to the cells and other terms and conditions related to the cells and their use. FUJIFILM iCell and MyCell are registered trademarks, and the 65 and the 10 are trademarks of FUJIFILM Cellular Dynamics, Inc. All other brands, product names, company names, trademarks, and service marks are the properties of their respective owners. © 2024 FUJIFILM Cellular Dynamics, Inc. All rights reserved. This document may not be reproduced, distributed, modified or publicly displayed without the prior express written

permission of FUJIFILM Cellular Dynamics, Inc.

Revision History Document ID: X1053 Version 1.0: April 2024