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Biosafety Documentation: ***iCell® Cardiomyocytes DCM (L35P)***

Catalog Number(s): C1164
Donor ID Number: 01016

Cell Source and Biosafety Level Classification

iCell® Cardiomyocytes DCM (L35P) are human cells differentiated from a master bank of stably induced pluripotent stem (iPS) cells. FUJIFILM Cellular Dynamics, Inc. (FCDI), classifies these cells as Biosafety Level 1 (BSL1) based on the United States Centers for Disease Control and Prevention publication: *Biosafety in Microbiological and Biomedical Laboratories*. We recommend handling iCell Cardiomyocytes DCM (L35P) according to the biosafety guidelines applicable in your region.

Reprogramming

The iPS cell lines were generated from human peripheral blood through ectopic expression of reprogramming factors (i.e., Oct4, Sox2, Nanog, Lin28, Klf4, L-Myc, SV40LT) by episomal transfection. Following reprogramming, no episomal plasmids were detected by PCR in the iPS cell line.

Engineering

The iPS cell clones were engineered using nuclease-mediated methodologies to exhibit blasticidin resistance under the control of a cardiomyocyte-specific promoter. Puromycin resistance was also included in the targeting vector to allow selection of the iPS cell clones. None of the engineering vectors used contain oncogenes.

Infectious Disease Testing

The iPS cell line / incoming peripheral blood was negative for HBV, HCV, HIV-1, and HIV-2.

Reference(s)

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