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## **Biosafety Documentation:** **iCell® Cardiomyocytes**

Catalog Number(s): C1105, C1106  
Donor ID Number: 11713

### **Cell Source and Biosafety Level Classification**

iCell® Cardiomyocytes 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 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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