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Biosafety Documentation:

Corrected MHY7 R403Q iCell® Products

Donor ID	01178	**Genotype**	Corrected MHY7 R403Q
Cell Line ID	01178.837	**Zygosity**	Heterozygous
Donor Sex	Female	**OMIM Disease Reference**	192600
Starting Material	Blood	**OMIM Reference Gene**	160760.0001
Age at Collection	50 – 60 years	**Catalog #**	C1119
Race	Caucasian		
Ethnicity	Unknown		

Cell Source and Biosafety Level Classification

iCell® products 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*. Handle the cells according to the biosafety guidelines applicable in your region.

Reprogramming

The iPS cell line was generated from human peripheral blood through ectopic expression of reprogramming factors by episomal transfection.

Following reprogramming, no episomal plasmids were detected by PCR in the iPS cell line.

Engineering

The iPS cell line was engineered to correct the MYH7 R403Q mutation resulting in MYH7 R403R.

The iPS cell line was further engineered to express blasticidin resistance under the control of a cardiac-specific promotor. A puromycin resistance cassette was also included in the targeting vectors to enable selection of the engineered iPS cell line.

None of the engineering vectors used contain oncogenes.

Infectious Disease Testing

The incoming peripheral blood was tested and non-reactive for HBV, HCV, HIV-1, and HIV-2.

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