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Biosafety Documentation:

iCell® Skeletal Myoblasts

Catalog Number(s): CPC-301-020-001-PT, C1038
Donor ID Number: 01279

Cell Source and Biosafety Level Classification

iCell® Skeletal Myoblasts 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 Skeletal Myoblasts 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 transposon-mediated methodologies to express a MyoD1-VP16 activation domain fusion protein under control of an inducible promoter. Puromycin resistance was also included in the targeting vector to allow selection of iPS cell clones. None of the engineering vectors used contain oncogenes.

Infectious Disease Testing

The iPS cell line is negative for HBV, HCV, HIV-1, HIV-2, HTLV-1, and HTLV-2.

Reference(s)

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