

Biosafety Documentation:

iCell® DopaNeurons

Catalog Number(s): C1149, C1150
Donor ID: 11299.1169
Genotype: LRRK2 G2019S

Cell Source and Biosafety Level Classification

iCell® DopaNeurons 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 iCell DopaNeurons 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.

Polymerase chain reaction analysis did not detect episomal plasmids in the iPS cell line.

Engineering

The iPS cell line was engineered to express neomycin resistance under the control of a neuronal-specific promoter. A puromycin resistance cassette was also included in the targeting vector 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.