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# **Biosafety Documentation:** *iCell*<sup>®</sup> *GlutaNeurons*

Catalog Number(s): GNC-301-030-000.5, GNC-301-030-001

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

iCell<sup>®</sup> GlutaNeurons are human cells differentiated from a master bank of stably induced pluripotent stem (iPS) cells. Cellular Dynamics International, Inc. (CDI) 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 GlutaNeurons 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 neomycin resistance under the control of a neuronal-specific promotor. 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 is negative for HBV, HCV, HIV-1, HIV-2, HTLV-1, and HTLV-2.

# Reference(s)

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