



For Cryopreservation of human iPS cells

StemSure hPSC Freezing Medium, AF

StemSure hPSC Freezing Medium is cryopreservation solution for human iPS cells(hiPSCs), and contains DMSO, but doesn't contain animal derived components.

Features

- ◆ Can cryopreserve hiPSCs at high cell survival rate
- ◆ Animal derived components free
- ◆ Can cryopreserve by slow cryopreservation method
- ◆ Applicable to hiPSCs cultured under feeder-free condition
- ◆ A program freezer is unnecessary
- ◆ Ready to use

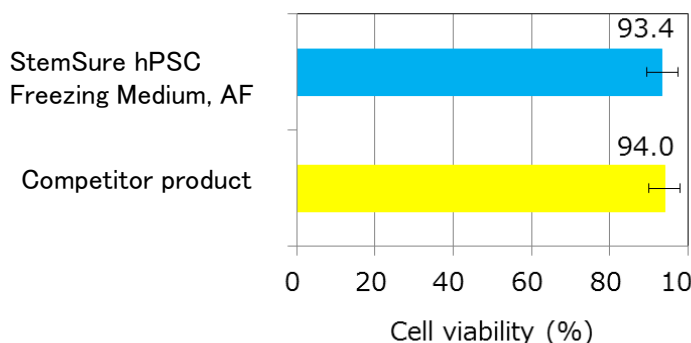
Cryopreservation of hiPSCs(201B7 strain)

After dispersing hiPSCs (201B7 strain) in single cell, suspended in this product, and cryopreserved in -80°C for 2-4 days.

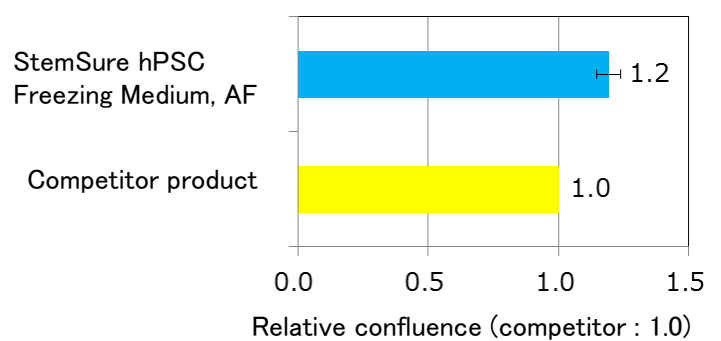
Show the rate of cell survival and cell growth after freezing and thawing. And show colony formation and expression of undifferentiated markers (Oct3/4, Nanog, BC2LCN).

The rate of cell survival and cell growth

Rate of cell survival



Rate of cell growth



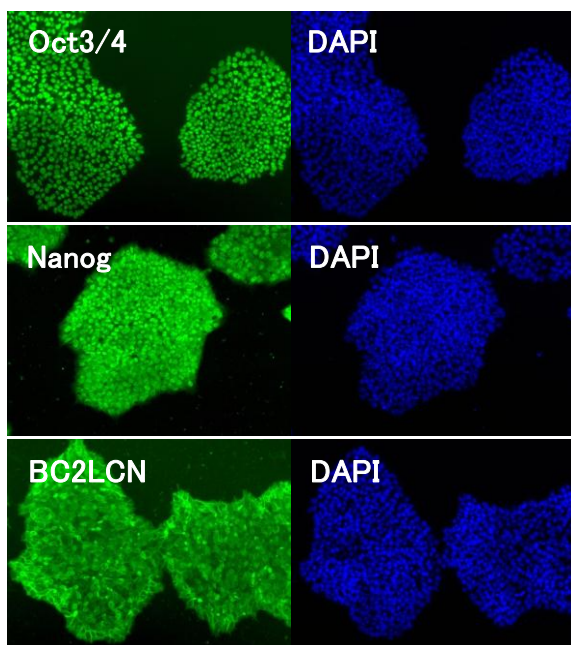
Code No.	Product Name	Grade	Package
197-17831	StemSure hPSC Freezing Medium, AF	for Cell Culture	100ml

Requirement : Appearance, Bacterial endotoxins, Sterility test, Mycoplasma test, Cell freeze-thaw test (hiPSCs 201B7 strain)

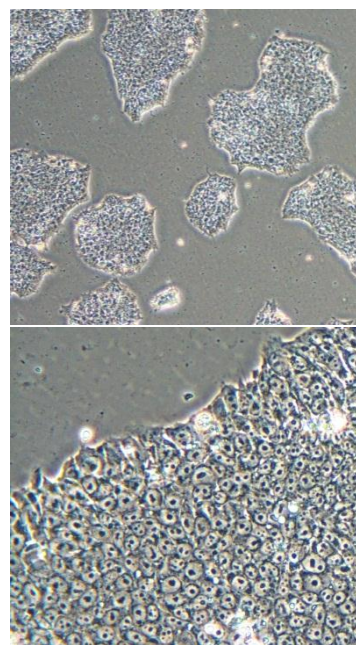
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Cryopreservation of hiPSCs(201B7 strain)

Expression of undifferentiated markers



Colony formation



- Showed the high rate of cell survival and cell growth. In addition showed the expression of undifferentiated markers.

Protocols

Freezing

1. Aspirate the culture medium, and rinse the hiPSCs with D-PBS(-).
 2. Remove D-PBS(-), and add hPSC dissociation Solution.
 3. Add ROCKi+hPSC medium[※], and suspend the colonies to single cells.
 4. Transfer the cell suspension to a tube, and spin at 1,000 rpm at room temperature for for 3 minutes.
 5. Aspirate the supernatant and suspend the pellet with the ROCKi+hPSC medium.
 6. Count the viable cell numbers and spin at 1,000 rpm at room temperature for for 3 minutes.
 7. Aspirate the supernatant and suspend to 2×10^6 cells/ml with StemSure hPSC Freezing Medium.
 8. Dispense to 500 μ l/vials.
 9. Freeze at -80°C and store at -80°C or -150°C . (recommend -150°C in long term storing)
- [※] ROCKi+hPSC medium is a medium for culturing hiPSCs and contains 10 μ mol/l Y-27632

Thawing

1. Add ROCKi+ hPSC medium in the freezing vial and thaw the freezing hiPSCs. (Don't completely thaw the freezing hiPSCs In the case of using a warm bath.)
2. Spin at 1,000 rpm at room temperature for for 3 minutes.
3. Aspirate the supernatant and suspend the pellet with the ROCKi+ hPSC medium.
4. Count the viable cell numbers and incubate with 2×10^5 cells/6cm dish.

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