Claims

[Claim 1] Mesenchymal stem cells isolated from a neonatal pig less than one month after birth, wherein an average diameter is 17 μm or less and a doubling time in a logarithmic growth phase is 36 hours or less, and

wherein the mesenchymal stem cells are produced by freezing cells isolated from the bone marrow or the pancreatic islet of the neonatal pig less than one month after birth, thawing the frozen cells, and inoculating and culturing the thawed cells.

[Claim 2] The mesenchymal stem cells according to claim 1, wherein the neonatal pig is a neonatal pig that enables cell transplantation into a human.

[Claim 3] The mesenchymal stem cells according to claim 1 or 2, wherein the mesenchymal stem cells are stem cells for transplantation.

[Claim 4] The mesenchymal stem cells according to claim 3, wherein the mesenchymal stem cells are stem cells for human transplantation.

[Claim 5] The mesenchymal stem cells according to claim 1 or 2, wherein the mesenchymal stem cells are stem cells for feeder cells.

[Claim 6] The mesenchymal stem cells according to claim 5, wherein the mesenchymal stem cells are stem cells for feeder cells for proliferating stem cells for human transplantation.

[Claim 7] A method for preparing mesenchymal stem cells, comprising:

isolating cells from the bone marrow or the pancreatic islet of a neonatal pig less than one month after birth,

freezing the isolated cells,

thawing and inoculating the frozen cells, and

subculturing the mesenchymal stem cells after 3 to 12 days from the inoculation.

[Claim 8] The method for preparing stem cells according to claim 7, wherein the cells to be isolated from the neonatal pig are cells in a monocytic cell fraction.

[Claim 9] The method for preparing stem cells according to claim 8, comprising a step of freezing the isolated cells in the monocytic cell fraction.