Claims

[Claim 1] ~~Stem~~ 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 stem cells according to claim 1, wherein an average diameter is 17 μm or less.~~

~~[Claim 3] The stem cells according to claim 1 or 2, wherein a doubling time in a logarithmic growth phase is 36 hours or less.~~

~~[Claim 4] The stem cells according to any one of claims 1 to 3, wherein the stem cells are mesenchymal stem cells.~~

[Claim 2~~5~~] The mesenchymal stem cells according to claim 1~~any one of claims 1 to 4~~, wherein the neonatal pig is a neonatal pig that enables cell transplantation into a human.

~~[Claim 6] The stem cells according to any one of claims 1 to 5, wherein the stem cells are isolated from the bone marrow or the pancreatic islet of the neonatal pig.~~

[Claim 3~~7~~] The mesenchymal stem cells according to claim 1 or 2~~any one of claims 1 to 6~~, wherein the mesenchymal stem cells are stem cells for transplantation.

[Claim 4~~8~~] The mesenchymal stem cells according to claim 3~~claim 7~~, wherein the mesenchymal stem cells are stem cells for human transplantation.

[Claim 5~~9~~] The mesenchymal stem cells according to claim 1 or 2~~any one of claims 1 to 6~~, wherein the mesenchymal stem cells are stem cells for feeder cells.

[Claim 6~~10~~] The mesenchymal stem cells according to claim 5~~claim 9~~, wherein the mesenchymal stem cells are stem cells for feeder cells for proliferating stem cells for human transplantation.

[Claim 7~~11~~] A method for preparing mesenchymal stem cells, comprising:

~~ a step of~~ 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 12] The method for preparing stem cells according to claim 11, comprising a step of subculturing the stem cells after 3 to 12 days from inoculation.~~

[Claim 8~~13~~] The method for preparing stem cells according to claim 7~~claim 11 or 12~~, wherein the cells to be isolated from the neonatal pig are cells in a monocytic cell fraction.

~~[Claim 14] The method for preparing stem cells according to any one of claims 11 to 13, wherein the isolation of the cells from the neonatal pig is isolation of the cells from the bone marrow or the pancreatic islet of the neonatal pig.~~

[Claim 9~~15~~] The method for preparing stem cells according to claim 8~~claim 13 or 14~~, comprising a step of freezing the isolated cells in the monocytic cell fraction.