CLAIMS

[Claim 1]

A method for producing a cell population suitable for transplantation into a cornea, the method comprising the steps of:

(1) preparing a cell population cultured under conditions suitable for inducing differentiation into corneal endothelial cells; and

(2) measuring the expression of at least one gene selected from the group consisting of POU6F2 and LMX1B in the cell population.

[Claim 2]

The method according to claim 1, wherein step (1) is a step of culturing stem cells under conditions suitable for inducing differentiation into corneal endothelial cells.

[Claim 3]

A method for determining whether a cell population cultured under conditions suitable for inducing differentiation into corneal endothelial cells is suitable for transplantation into a cornea, the method comprising measuring the expression of at least one gene selected from the group consisting of POU6F2 and LMX1B in the cell population.

[Claim 4]

The method according to claim 3, wherein the cell population is a cell population of stem cells cultured under conditions suitable for inducing differentiation into corneal endothelial cells.

[Claim 5]

A method for producing a cell population suitable for transplantation into a cornea, the method comprising the steps of:

(1) preparing a cell population cultured under conditions suitable for culturing corneal endothelial cells; and

(2) measuring the expression of at least one gene selected from the group consisting of POU6F2 and LMX1B in the cell population.

[Claim 6]

The method according to claim 5, wherein the cell population cultured under conditions suitable for culturing corneal endothelial cells comprises cells obtained from a corneal endothelium.

[Claim 7]

A method for determining whether a cell population cultured under conditions suitable for culturing corneal endothelial cells is suitable for transplantation into a cornea, the method comprising measuring the expression of at least one gene selected from the group consisting of POU6F2 and LMX1B in the cell population.

[Claim 8]

The method according to claim 7, wherein the cell population cultured under conditions suitable for culturing corneal endothelial cells comprises cells obtained from a corneal endothelium.

[Claim 9]

A method for producing a suspension, sheet, or sphere comprising a cell population, the method comprising the steps of:

(1) preparing a cell population cultured under conditions suitable for inducing differentiation into corneal endothelial cells;

(2) measuring the expression of at least one gene selected from the group consisting of POU6F2 and LMX1B in the cell population; and

(3) preparing a suspension, sheet, or sphere comprising the cell population that expresses the gene.

[Claim 10]

The method according to claim 9, wherein step (1) is a step of culturing stem cells under conditions suitable for inducing differentiation into corneal endothelial cells.

[Claim 11]

A method for producing a suspension, sheet, or sphere comprising a cell population, the method comprising the steps of:

(1) preparing a cell population cultured under conditions suitable for culturing corneal endothelial cells;

(2) measuring the expression of at least one gene selected from the group consisting of POU6F2 and LMX1B in the cell population; and

(3) preparing a suspension, sheet, or sphere comprising the cell population that expresses the gene.

[Claim 12]

The method according to claim 11, wherein the cell population cultured under conditions suitable for culturing corneal endothelial cells comprises cells obtained from a corneal endothelium.