CLAIMS

1. Use of at least one polysaccharide selected from the group consisting of trehalose, hydroxyethylstarch and dextran as a mammalian stem cell aggregation inhibitor in a mammalian stem cell suspension, wherein,

- when the polysaccharide is trehalose, the inhibitor is used such that the concentration of trehalose in the mammalian stem cell suspension is within the range of 4.53 - 362.4 mg/ml;

- when the polysaccharide is hydroxyethylstarch, the inhibitor is used such that the concentration of hydroxyethylstarch in the mammalian stem cell suspension is within the range of 1 - 500 mg/ml;

- and when the polysaccharide is dextran, the inhibitor is used such that the concentration of dextran in the mammalian stem cell suspension is within the range of 30 - 100 mg/ml.

2. Use according to claim 1, wherein the stem cell is an adhesive stem cell.

3. Use according to claim 2, wherein the adhesive stem cell is a mesenchymal stem cell or a pluripotent stem cell.

1. A mammalian stem cell aggregation inhibitor comprising at least one polysaccharide selected from the group consisting of trehalose, hydroxyethylstarch and dextran.

2. The mammalian stem cell aggregation inhibitor according to claim 1, wherein the stem cell is an adhesive stem cell.

3. The mammalian stem cell aggregation inhibitor according to claim 2, wherein the adhesive stem cell is a mesenchymal stem cell or a pluripotent stem cell.

4. The mammalian stem cell aggregation inhibitor according to claim 1, wherein the polysaccharide is trehalose, which inhibitor is used such that the concentration of trehalose in a mammalian stem cell suspension is within the range of 4.53 - 362.4 mg/ml.

5. The mammalian stem cell aggregation inhibitor according to claim 1, wherein the polysaccharide is dextran, which inhibitor is used such that the concentration of dextran is within the range of 30 - 100 mg/ml.

6. A method of suppressing aggregation of mammalian stem cells, comprising suspending the mammalian stem cells in an aqueous physiological solution containing at least one polysaccharide selected from the group consisting of trehalose, hydroxyethylstarch and dextran.

7. The method of suppressing aggregation of mammalian stem cells according to claim 6, wherein the stem cells are adhesive stem cells.

8. The method of suppressing aggregation of mammalian stem cells according to claim 7, wherein the adhesive stem cells are mesenchymal stem cells or pluripotent stem cells.

9. The method of suppressing aggregation of mammalian stem cells according to claim 6, wherein the mammalian stem cells comprise mammalian stem cells in a single-cell state.

10. The method of suppressing aggregation of mammalian stem cells according to claim 6, wherein the polysaccharide is trehalose having a concentration within the range of 4.53 - 362.4 mg/ml.

11. The method of suppressing aggregation of mammalian stem cells according to claim 6, wherein the polysaccharide is dextran having a concentration within the range of 30 - 100 mg/ml.