Claims

1. A medium for culturing pluripotent stem cells, comprising an albumin carrying 0.1 mg/g - 0.65 mg/g of fatty acid, wherein the content of fatty acid in the medium is not more than 60 μM, and wherein the final concentration of albumin in the medium is 0.5 - 5 mg/mL.

2. The medium according to claim 1, wherein the fatty acid is a long chain fatty acid.

3. The medium according to claim 1, wherein the fatty acid is at least one kind selected from the group consisting of oleic acid, palmitic acid, stearic acid, linoleic acid, linolenic acid and arachidonic acid.

4. The medium according to any one of claims 1 to 3, wherein the albumin is a human serum-derived albumin.

5. The medium according to any one of claim 1 to 4, wherein the pluripotent stem cell is an embryonic stem cell (ES cell) or an induced pluripotent stem cell (iPS cell).

6. The medium according to any one of claims 1 to 5, which is used for single-cell culture.

7. A method of culturing stem cells, comprising a step of cultivating in the medium according to any one of claims 1 to 6.

8. A method of selecting an albumin suitable for addition to a medium, comprising a step of measuring the amount of fatty acid carried, and selecting an albumin carrying 0.1 mg/g - 0.65 mg/g of fatty acid.

9. A method of producing a medium for culturing stem cells,

comprising preparing an albumin carrying 0.1 mg/g - 0.65 mg/g of fatty acid by a fatty acid removal treatment with activated carbon, and adding the prepared albumin to a medium wherein the content of fatty acid in the medium is not more than 60 μM.

10. The method according to claim 9, wherein the treatment with activated carbon is performed using 30 - 60 wt% of activated carbon relative to the weight of the albumin.

11. The method according to claim 9 or 10, wherein the treatment with activated carbon is performed at pH 6.7 - 7.3.

12. The method according to claim 9 or 10, wherein the treatment with activated carbon is performed at pH 3.7 - 4.3.

13. The method according to any one of claims 9 to 12, wherein the fatty acid is a long chain fatty acid.

14. The method according to any one of claims 9 to 12, wherein the fatty acid is at least one kind selected from the group consisting of oleic acid, palmitic acid, stearic acid, linoleic acid, linolenic acid and arachidonic acid.

15. The method according to any one of claims 9 to 14, wherein the albumin is human serum-derived albumin.

16. The method according to any one of claims 9 to 14, wherein the stem cell is a pluripotent stem cell.

17. The method according to claim 16, wherein the pluripotent stem cell is an embryonic stem cell (ES cell) or an induced pluripotent stem cell (iPS cell).

18. An additive for a medium for culturing pluripotent stem cells, comprising an albumin carrying 0.1 mg/g - 0.65 mg/g of

fatty acid.

19. An albumin carrying 0.1 mg/g - 0.65 mg/g of fatty acid when used as an additive for a medium for culturing pluripotent stem cells.

20. The additive or the albumin according to claim 18 or 19, wherein the fatty acid is a long chain fatty acid.

21. The additive or the albumin according to claim 18 or 19, wherein the fatty acid is at least one kind selected from the group consisting of oleic acid, palmitic acid, stearic acid, linoleic acid, linolenic acid and arachidonic acid.

22. The additive or the albumin according to any one of claims 18 to 21, wherein the albumin is human serum-derived albumin.

23. The additive or the albumin according to any one of claims 18 to 22, wherein the pluripotent stem cell is an embryonic stem cell (ES cell) or an induced pluripotent stem cell (iPS cell).

24. The additive or the albumin according to any one of claims 18 to 23, wherein the culturing is a single-cell culturing.

25. A culture system of a pluripotent stem cell, comprising a medium with an albumin carrying 0.1 mg/g - 0.65 mg/g of fatty acid and a content of fatty acid in the medium is not more than 60 μM and the final concentration of albumin in the medium is 0.5 - 5 mg/mL.

26. The culture system according to claim 25, wherein the fatty acid is a long chain fatty acid.

27. The culture system according to claim 25 or 26, wherein the

fatty acid is at least one kind selected from the group consisting of oleic acid, palmitic acid, stearic acid, linoleic acid, linolenic acid and arachidonic acid.

28. The culture system according to any one of claims 25 to 27, wherein the albumin is human serum-derived albumin.

29. The culture system according to any one of claims 25 to 28, wherein the pluripotent stem cell is an embryonic stem cell (ES cell) or an induced pluripotent stem cell (iPS cell).

30. The culture system according to any one of claims 25 to 29, which is a single-cell culture system.