Claims

1. A medium for culturing 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.

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 claims 1 to 4, wherein the stem cell is a pluripotent stem cell.

6. The medium according to claim 5, wherein the pluripotent stem cell is an embryonic stem cell (ES cell) or an induced pluripotent stem cell (iPS cell).

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

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

9. 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.

10. 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.

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

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

13. The method according to claim 10 or 11, wherein the treatment with activated carbon is performed at pH 3.7 - 4.3.

14. The method according to any one of claims 10 to 13, wherein the fatty acid is a long chain fatty acid.

15. The method according to any one of claims 10 to 13, 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.

16. The method according to any one of claims 10 to 15, wherein the albumin is human serum-derived albumin.

17. The method according to any one of claims 10 to 16, wherein the stem cell is a pluripotent stem cell.

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

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

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

21. The additive according to claim 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 according to any one of claims 19 to 21, wherein the albumin is human serum-derived albumin.

23. The additive according to any one of claims 19 to 22, wherein the stem cell is a pluripotent stem cell.

24. The additive according to claim 23, wherein the pluripotent stem cell is an embryonic stem cell (ES cell) or an induced pluripotent stem cell (iPS cell).

25. The additive according to any one of claims 19 to 24, whein the culturing is a single-cell cuturing.

26. A culture system of a stem cell, comprising a step of cultivating in a medium comprising an albumin carrying 0.1 mg/g - 0.65 mg/g of fatty acid, wherein the amount of the fatty acid to be carried is so selected as to enable maintenance of the stem cell in an undifferentiated state, and a content of fatty acid in the medium is not more than 60 μM.

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

acid is a long chain fatty acid.

28. The culture system according to claim 26 or 27, 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.

29. The culture system according to any one of claims 26 to 28, wherein the albumin is human serum-derived albumin.

30. The culture system according to any one of claims 26 to 30, wherein the stem cell is a pluripotent stem cell.

31. The culture system according to claim 30, wherein the pluripotent stem cell is an embryonic stem cell (ES cell) or an induced pluripotent stem cell (iPS cell).

32. The culture system according to claim 26 to 31, which is a single-cell culture system.