CLAIMS

1. An agent comprising a fatty acid synthesis inhibitor when used to remove a pluripotent stem cell,

wherein the fatty acid synthesis inhibitor inhibits fatty acid synthesis by targeting at least one factor selected from the group consisting of an ATP citrate lyase, a fatty acid synthase, an acetyl-CoA carboxylase, and a malonyl-CoA decarboxylase.

2. The agent when used according to Claim 1, wherein the agent further comprises:

at least one compound selected from the group consisting of glucose, glutamine, and methionine.

3. An agent comprising one or two or more kinds selected from the group consisting of Orlistat, C75, LY294002, SB204990, and salts thereof when used to remove a pluripotent stem cell.

4. A culture medium comprising a fatty acid synthesis inhibitor when used to remove a pluripotent stem cell, wherein the fatty acid synthesis inhibitor inhibits fatty acid synthesis by targeting at least one factor selected from the group consisting of an ATP citrate lyase, a fatty acid synthase, an acetyl-CoA carboxylase, and a malonyl-CoA decarboxylase.

5. The culture medium when used according to Claim 4,

wherein the concentration of the fatty acid synthesis inhibitor in the culture medium is 0.1 to 500 μM.

6. The culture medium when used according to Claim 4 or 5, wherein the culture medium further comprises:

at least one compound selected from the group consisting of glucose, glutamine, and methionine.

7. A culture medium comprising one or two or more kinds selected from the group consisting of Orlistat, C75, LY294002, SB204990, and salts thereof when used to remove a pluripotent stem cell.

8. A method for removing pluripotent stem cells, comprising:

culturing a cell mixture that contains a pluripotent stem cell and a differentiated cell in the presence of the agent when used as defined in any one of Claims 1 to 3.

9. The method for removing pluripotent stem cells according to Claim 8, wherein the pluripotent stem cell is an induced pluripotent stem cell.

10. The method for removing pluripotent stem cells according to Claim 9, wherein the differentiated cell is a cardiomyocyte.

11. A production method of cells for transplantation, comprising the following steps (i) and (ii):

a step (i) of inducing a desired differentiated cell from a pluripotent stem cell; and

a step (ii) of culturing a cell mixture obtained in the step (i) in the presence of the agent when used as defined in any one of Claims 1 to 3.

12. The production method according to Claim 11,
wherein the pluripotent stem cell is an induced pluripotent stem cell.

13. The production method according to Claim 11 or 12,
wherein the differentiated cell is a cardiomyocyte.