CLAIMS

1. A cell culture medium which is free of glutamine, serine and glycine in the amino acid profile.

2. The cell culture medium according to claim 1, which is further free of arginine in the amino acid profile.

3. The cell culture medium according to claim 2, wherein the undifferentiated stem cells are pluripotent stem cells or multipotent stem cells.

4. A method for inducing cell death of undifferentiated stem cells by performing cell culture in a cell culture medium that is free of glutamine in the amino acid profile.

5. The method according to claim 4, wherein the undifferentiated stem cells are pluripotent stem cells or multipotent stem cells.

6. The method according to claim 4 or claim 5, wherein the cell culture medium is further free of serine and glycine in the amino acid profile.

7. The method according to any one of claims 4-6, wherein the cell culture medium is further free of arginine in the amino acid profile.

8. The method according to any one of claims 4-7, wherein the cell culture is continued for 12-360 hours under any of the above particular amino acid-free conditions.

9. A cell culture medium which is supplemented with lactate, free of sugar, and free of glutamine in the amino acid profile.

10. A cell culture medium which is supplemented with pyruvate, free of sugar, and free of glutamine in the amino acid profile.

11. A cell culture medium which is supplemented with a fatty acid, free of sugar, and free of glutamine in the amino acid profile.

12. The cell culture medium according to any one of claims 9-11, which is further free of serine and glycine in the amino acid profile.

13. The cell culture medium according to any one of claims 9-12, which is further free of arginine in the amino acid profile.

14. The cell culture medium according to any one of claims 9-13, which is supplemented with ascorbate or albumin.

15. A method for selecting cardiomyocytes, comprising culturing a mixture of cardiomyocytes and non-cardiomyocytes in a cell culture medium which is supplemented with lactate, free of sugar, and free of glutamine in the amino acid profile.

16. A method for selecting cardiomyocytes, comprising culturing a mixture of cardiomyocytes and non-cardiomyocytes in a cell culture medium which is supplemented with pyruvate, free of sugar, and free of glutamine in the amino acid profile.

17. A method for selecting cardiomyocytes, comprising culturing a mixture of cardiomyocytes and non-cardiomyocytes in a cell culture medium which is supplemented with a fatty acid, free of sugar, and free of glutamine in the amino acid profile.

18. The method according to any one of claims 15-17, wherein the non-cardiomyocytes are undifferentiated stem cells, differentiated non-cardiomyocytes, or established cells.

19. The method according to any one of claims 15-18, wherein the cell culture medium is further free of serine and glycine in the amino acid profile.

20. The method according to any one of claims 15-19, wherein the cell culture medium is further free of arginine in the amino acid profile.

21. The method according to any one of claims 15-20, wherein the cell culture is continued for 12-360 hours under any of the above particular amino acid-free conditions.

22. The method according to any one of claims 15-21, wherein the cell culture medium is supplemented with ascorbate or albumin.