CLAIMS

1. A method for producing a cell culture containing cardiomyocytes induced to be differentiated from embryoid bodies formed from pluripotent stem cells, the method comprising

(i) a step of forming embryoid bodies from the pluripotent stem cells,

(ii) a step of inducing differentiation of the embryoid bodies to obtain a cell population which contains the cardiomyocytes and cells having a high proliferation rate relative to the cardiomyocytes;

(iii) a step of dispersing the cell population; and

(iv) a step of seeding the dispersed cell at a density reaching confluence or higher, wherein the density reaching confluence is a density at which cell proliferation is a density of 1.0×10^5 cells/cm^2 to about 1.0×10^8 cells/cm^2; and

(v) a step of culturing the seeded cell.

2. The method according to claim 1, wherein the cell culture contains the cardiomyocytes at a higher proportion than a cell population before seeding.

3. The method according to claim 1 or 2, wherein the cell culture contains a cell group having a high proliferation rate relative to the cardiomyocytes at a lower proportion than the cell population before seeding.

4. The method according to any one of claims 1 to 3, in step (v), further comprising removal of cells having tumorigenicity.

5. The method according to claim 4, wherein the removal of cells having tumorigenicity comprises treating with Brentuximab-Vedotin.

6. The method according to any one of claims 1 to 5, wherein the pluripotent stem cells are iPS cells.

7. The method according to any one of claims 1 to 6, wherein the pluripotent stem cells are human cells.

8. The method according to any one of claims 1 to 7, wherein the cardiomyocytes are cells for application to a subject in need thereof.

9. The method according to any one of claims 1 to 8, wherein the desired cells are mesenchymal stem cells, skeletal myoblasts, multipotent cardiac progenitor cells, unipotent cardiac progenitor cells, cardiomyocyte, skeletal muscle cells, smooth muscle cells, hemangioblasts, epithelial cells, endothelial cells, lung cells, liver cells, pancreatic cells, renal cells, adrenal cells, intestinal epithelial cells, neural stem cells, bone marrow stromal cells, neural cells, corneal epithelial cells, corneal endothelial cells, retinal pigment epithelial cells, T cells, NK cells, NKT cells, dendritic cells or blood cells.

10. The method according to any one of claims 1 to 9, wherein a cell culture having a troponin positive rate of 50% to 90% is obtained.

11. The method according to claim 5, wherein a cell culture having a Lin28 positive rate of 0.30% or less is obtained.