

Abstract

[Problem] To provide a method for producing an artificial three-dimensional muscle tissue, said method enabling stable, efficient and easy production of a muscle tissue, and an artificial three-dimensional muscle tissue produced by this method. [Solution] A method for producing an artificial three-dimensional muscle tissue, said method comprising steps of (i) forming a three-dimensional muscle tissue precursor, which is configured from a first muscle tissue support, a second muscle tissue support and muscle cells, by linearly arranging the muscle cells on the first muscle tissue support in such a manner that the muscle cells are located close to the first muscle tissue support at one end of the line and close to the second muscle tissue support at the other end of the line, and (ii) culturing the three-dimensional muscle tissue precursor to give an artificial three-dimensional muscle tissue, and an artificial three-dimensional muscle tissue obtained by this method.