Immortalized stem cell and Medical Composition and Medical Preparation comprising Product Thereof as Active Ingredient

ABSTRACT

The purpose of the present invention is to provide immortalized stem cells, which produce a growth factor capable of regenerating various kinds of tissues that have been damaged by a variety of causes, and a method for producing the aforesaid immortalized stem cells. Another purpose of the present invention is to provide a medicinal composition and a medicinal preparation for restoring damaged tissues, and a method for the percutaneous absorption of a culture supernatant. Provided are immortalized stem cells that are obtained by isolating stem cells selected from the group consisting of mammalian mesenchymal cells, an embryo at the early stage of the development and somatic cells, first culturing the cells to give first stage culture cells, transferring four kinds of genes into the first stage culture cells to give transgenic cells, and selecting the desired immortalized stem cells from among the transgenic cells using the expression of STRO-1 as an index. Also provided are a medicinal composition and a medicinal preparation for restoring damaged tissues which comprise a culture supernatant of the immortalized stem cells as the active ingredient.

[No Figure]