

Abstract

METHOD OF PRODUCING RETINAL PIGMENT EPITHELIAL CELL

5 Provided are a production method of retinal pigment
epithelial cell that improves differentiation induction
efficiency of pluripotent stem cell into retinal pigment
epithelial cell, and can provide highly pure retinal pigment
epithelial cell by a simple and easy operation in a short
10 period, a culture method of retinal pigment epithelial cell
that can stably grow and culture a cell, a toxicity/efficacy
evaluation method using a retinal pigment epithelial cell
useful for transplantation therapy, and a therapeutic drug for
a retinal disease. The present invention relates to a
15 production method of retinal pigment epithelial cells,
including a step of adhesion culture of human pluripotent stem
cells by using a culture substrate coated with a laminin-E8
fragment, a culture method of retinal pigment epithelial cells,
including a step of adhesion culture of retinal pigment
20 epithelial cells by using a culture substrate coated with a
laminin-E8 fragment, a toxicity or efficacy evaluation method
using retinal pigment epithelial cells obtained by producing or
culturing by said method, and a therapeutic drug for a retinal
disease, containing the retinal pigment epithelial cells.

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Fig. 1