U890

Pluripotent stem cell and embryonic stem cell culture media with high stability

We are looking to out-license the technology for its commercialization.

Xeno-/feeder-free cell culture media suitable for most major cell lines including 201B7, 253G1 and KhES-1

♦Background

Culturing pluripotent stem cells in vitro and preparing them for direct differentiation to produce specific cell types is crucial for the development of cell-based therapies and most research activities in the field of regenerative medicine. However, currently available stem cell culture media often contains concentrated proteins, which can be easily denatured while contributing to the high cost of the media. In addition, when changing media to replenish nutrients and keep correct pH, media usually needs to be replaced carefully over a couple of days so that culture cells can be adjusted to the new media.

♦ Description

The innovation provides for a new PSC media of which some expensive protein components are replaced with non-protein compounds. It is inexpensive and highly stable. When exchanging media, it can be replaced at once without any treatment to adjust culture cells to the solution. Researchers at Kyoto University have developed a highly stable culture medium that allows the proliferation of PSCs such as iPS cell and ES cell without changing the cell characters.

- > High stability
- Easy media change without acclimation process
- > Xeno-free medium for a feeder-free culture environment
- > Suitable for various pluripotent stem cell lines

♦ Development Status

- PSC culture using the new media showed normal pluripotent gene expressions in PSCs as well as favorable cell proliferation in the following cell lines: 201B7, 253G1 and KhES-1.
- Seeking reagent suppliers to market the product

♦ Potential Application

- PSC growth medium
- · PSC induction medium

♦ Offer

- License
- Option for license

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