

FAQ about Xyltech™ BOF-01

Q

Is the composition of the culture medium disclosed?

A

We do not disclose the exact composition; in general terms, it is similar to that of DMEM/F12, a basic culture medium used for culturing human pluripotent stem cells, except that it does not contain glucose.

Q

What kind of composition should I use to prepare the BOF-01 culture medium?

A

We recommend that the use of the human ES culture medium described in the following reference. We also recommend using mouse fibroblasts (MEF) as feeder cells.

Reference: Curr Protoc Stem Cell Biol. 2009 Jun; Chapter 4: Unit 4A.2.

Q

What culture medium should be used to grow cells again after suppression of growth?

A

We recommend the use of the human ES culture medium described in the following Reference. The use of other companies' culture media at your own discretion is permissible as long as it is for on-feeder use.

Reference: Curr Protoc Stem Cell Biol. 2009 Jun; Chapter 4: Unit 4A.2.

Q

Is it possible to use BOF-01 for proliferation suppression culture for more than 3 days?

A

We recommend proliferation control culture of human pluripotent stem cells using BOF-01 for at most 3 days to maintain good cell conditions. After 3 days of proliferation-controlled culture, please replace the medium with the human ES culture medium and observe the condition of the cells carefully starting on the next day before starting passaging or experiments.

Q

Is it possible to perform repeated proliferation control culture? Also, how many passages can be cultured?

A

Proliferation control culture can be performed repeatedly. The number of passages will depend on the condition of your cells, but we have confirmed that up to 10 passages are possible. When proliferation-controlled culture is repeated for a short period of time, the doubling time of the cells may decrease. In this case, it is necessary to increase the seeding density.

Q

Is it possible to use human pluripotent stem cells in a feeder-free culture system?

A

BOF-01 has been developed for use in an on-feeder culture system of human pluripotent stem cells. Therefore, this product cannot be used in feeder-free culture systems.

Q

Can this medium also be used to culture differentiated human pluripotent stem cells?

A

This product is designed for use in culture systems that maintain the undifferentiated state of human pluripotent stem cells. It is not suitable for use with differentiated cells.

Q

Does the proliferation control medium completely suppress cell proliferation?

A

During the 3 days of proliferation control culture, cell proliferation is much slower than usual. We have confirmed that the growth rate of cells is suppressed to less than half of that of normal culture.