Human pluripotent stem (ES/iPS) cells Xyltech BOF-01

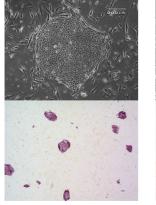


The timing of passage needs to be adjusted to the cell' s condition and growth rate.

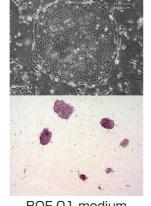
Morphology of Undifferentiated Cell Colony and Effect of Proliferation Control

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 Phase images of cell colonies and alkaline phosphatase stain of human iPS cells before and after proliferation control culture by BOF-01 (201B7 strain)

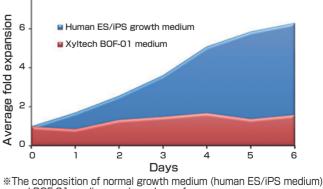


Normal culture



BOF-01 medium

• Comparison of cell proliferation rates of hiPS cells cultured in BOF-01 medium and normal human ES/iPS growth medium.

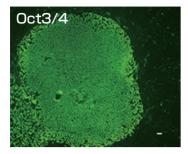


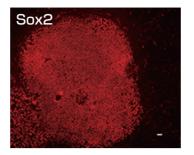
and BOF-01 medium are based on reference. Curr Protoc Stem Cell Biol.2009 Jun; Chapter 4: Unit 4A.2.

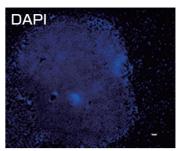
Xyltech BOF-01 suppressed cell proliferation while maintaining human iPS cells in undifferentiated state.

Undifferentiation markers expression in human iPS cells by BOF-01

•The high expression of pluripotent stem cell markers was confirmed by immunofluorescence staining of human iPS cells (201B7) maintained in BOF-01 medium for 3 days.



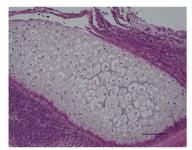




Xyltech BOF-01 maintained human iPS cells in undifferentiated state.

Differentiation of Three Germ Layers (Teratoma Assay)

•The ability of differentiation was confirmed by transplanting into immunodeficient mouse by human iPS cells (201B7) maintained in BOF-01 medium for 3 days to form teratoma.



Mesoderm (Chondrocyte)



Endoderm (Alimentary canal epitherial cell)

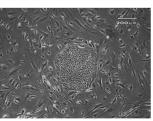


Ectoderm (Pigment cell)

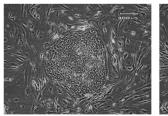
Xyltech BOF-01 maintained human iPS cells in pluripotent state.

Colony morphology changes during proliferation control culture

HumanES/iPS cells may change the morphology of colonies while cultured in BOF-01 medium. The original morphology can be resumed after changing back to normal human ES/iPS medium (Phase images show the example of 201B7 cells).



Normal culture (Day 1)



BOF-01 medium (Day 4)

Back to normal culture (Day 5)

Cat. No.	Product name	Expiration	Storage	Volume
10101	Xyltech BOF-01	12 months	2~8°C	100mL

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