

Stem-Partner ACF

Animal component-free, feeder-free medium with low protein

- ✓ Gradual cell proliferation
- ✓ Less heterogeneous cell population
- ✓ Manufactured in GMP-ready facility in Japan



hES cell SEES2 (Day 4)
cultivated by Stem-Partner ACF



Key Features

- Animal component/feeder – free medium for human iPS/ES cells
- Able to control the state by adding or not adding bFGF:
with bFGF – able to maintain the undifferentiated state
without bFGF - able to proceed to embryoid body formation
- For various research use from basic to clinical

Product spec/label/appearance may change without prior notice.

Distributed by



2-10-4 Toranomon,
Minato-ku, TOKYO
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SEKISUI CHEMICAL CO., LTD.

Manufactured by



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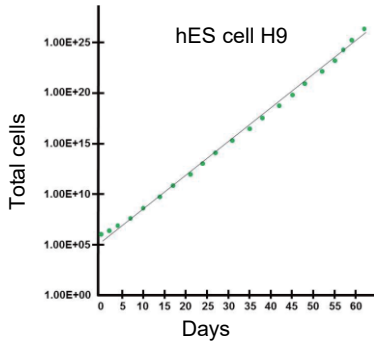


Example of cell lines

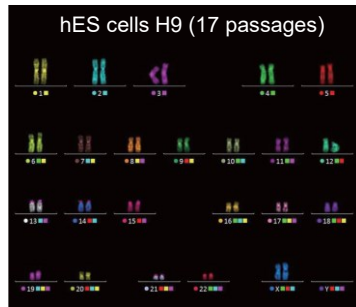
hiPS cells	201B7, PFX#9	hES cells	H9, SEES2, SEES5
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Basic application data

A. Cell proliferation



B. Karyotyping



C. CHD7 copy numbers

Methods		CHD7 copy numbers
on feeder	Small cell clumps	5220 (P29) 5100 (P36) 4900 (P38)
Stem-Partner ACF /VTN-N		4440 (P8)
Stem-Partner SF /VTN-N	Single cell suspension	3280 (P10)
Stem-Partner ACF /VTN-N		6040 (P18)

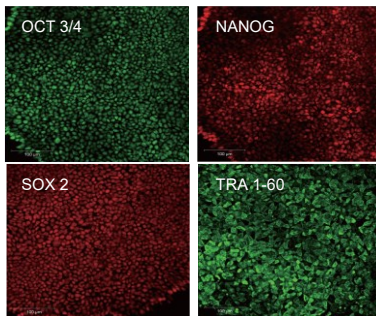
CHD7, an indicator of differentiation ability

No abnormalities in cell proliferation (**A***) and gene mutation analysis (**B***).
CHD7 gene maintained a high copy number (**C****).

* Data provided by M.D. Ph.D., Kawamata at Foundation for Biomedical Research and Innovation (FBRI) at Kobe.

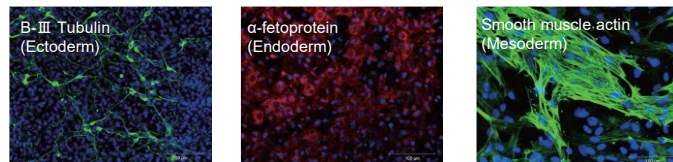
** Yamamoto T., et al. *Scientific report*. 2018

D. Undifferentiated marker expression after passages



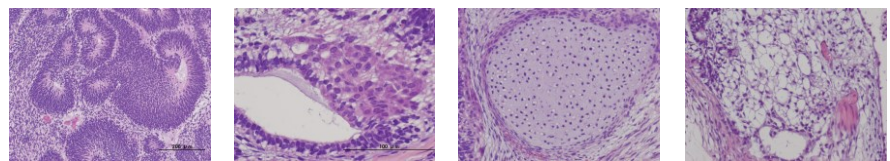
Undifferentiated markers were maintained after passaging (**D***).

E. Immunostaining after embryoid formation (in vitro)



Able to differentiate into the trichoderm after embryoid body formation (**E***)

F. Tissue section in teratoma formation studies (in vivo)



Neural rosette (Ectoderm)

Gut-Like Epithelium (Endoderm)

Cartilage (Mesoderm)

Muscle (Mesoderm)

Histological images from the trichoderm were observed in the teratoma formation test (**F***).

* Data provided by National Center for Child Health and Development (NCCHD)

Storage	Frozen at -15 ° C or below
Shelf life	12 months from manufacture date

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