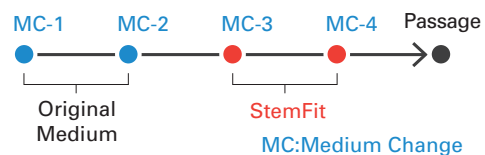


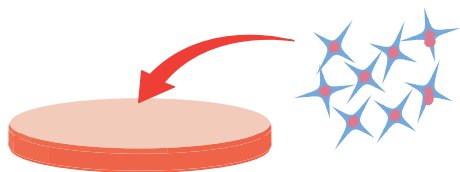
## ● Tips on transitioning cells to StemFit medium

- Switch culture medium to StemFit 2 – 3 days prior to passage

<Example>



- Seed the cells at a higher density (>1.0 x 10<sup>5</sup> cells per well (6-well plate))



For further information, please contact

✉ [stemfit@asv.ajinomoto.com](mailto:stemfit@asv.ajinomoto.com)

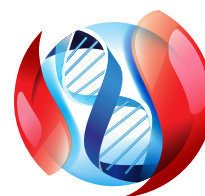
AJINOMOTO CO., INC. AminoScience Division

15-1, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8315, Japan

Eat Well, Live Well.



## Feeder-free medium for ES/iPS cells



# StemFit Technical tips

Key points for successful single-cell passage

Benefit  
1

**Robust and reproducible culture**

Quantitative culture

Benefit  
2

**High fold expansion**

~100X expansion / passage

Eat Well, Live Well.



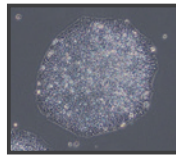
# ● Single-cell passage brief protocol example (6-well plate) and tips

**1** Aspirate the medium and wash once with 2 mL of PBS



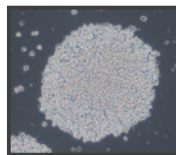
**2** Add 500 µl/well of Accutase and incubate at 37 °C for 10 min  
\* TrypLE™ can also be used for cell dissociation  
\* Incubation time may vary depending on the matrix

• Before incubation with Accutase



**Point-1**  
10min!

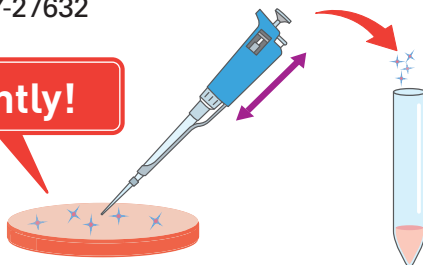
• Gaps in the colonies appear and dissociation of colonies is apparent



Whole colony can be smoothly detached

**3** Gently pipette the cells to fully dissociate and transfer cells to a 15-ml tube filled with 500 µl of culture medium containing 10 µM Y-27632

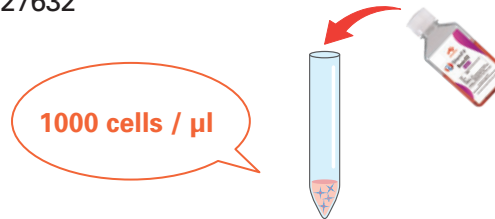
**Point-2**  
Gently!



**4** Count the cells and centrifuge the tubes



Aspirate the medium and resuspend cells with culture medium containing 10 µM Y-27632



**5** Add 10-20 µl (1.0-2.0 x 10<sup>4</sup> cells) of resuspended cells per well in 1.5 mL of culture medium containing 10 µM Y-27632

\* It is important to adjust the plating cell number for different lines of hPSCs  
\* Try a higher seeding density when cell or colony quantity is insufficient (See also Tips on transitioning cells to StemFit medium)

**Point-4**  
Distribute evenly!

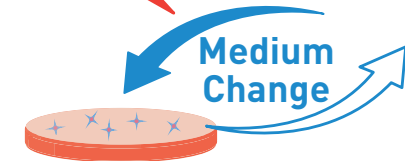
**Point-3**  
Adjust the Cell Number!



\* Immediately distribute the cells evenly over the plate surface to avoid uneven attachment

**6** After >24 hours of culture, replace with fresh culture medium without Y-27632

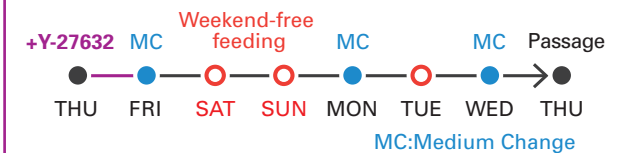
**Point-5**  
>24hours!



\* It is critical that cells are cultured in Y-27632 containing medium for more 24 hours

**7** Perform medium change

<Passage Schedule Example>



**Point-6**  
\* If the color of the medium turns orange or yellow, it should be changed every day

**Point-7**  
\* Do not allow cells to become confluent