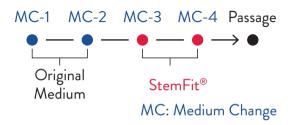


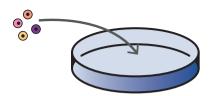
TIPS ON TRANSITIONING CELLS TO STEMFIT® MEDIUM

FEEDER FREE MEDIUM FOR ES/IPS CELLS

• Switch culture medium to StemFit® 2-3 days prior to passage



• Seed the cells at higher density (>1.0 \times 10⁵ cells per well (6-well plate))



AMSBIO | www.amsbio.com | info@amsbio.com

AMSBIO LLC USA & Canada

F: +1 (617) 945-8218

1035 Cambridge Street, Berenkoog 41, 1822 BH Alkmaar, Cambridge, MA 02141 T: +1 (617) 945-5033 or Netherlands T: +1 (800) 987-0985 T: +31(0)728080244

AMSBIO Europe BV

F: +31 (0) 72 8080142

184 Park Drive, Milton Park Abingdon OX14 4SE T: +44 (0) 1235 828 200 F: +44 (0) 1235 820 482

AMS Biotechnology (Europe) Ltd

UK & Rest of the World

AMS Biotechnology (Europe) Ltd Switzerland

Via Lisano 3. (CP 683) CH-6900 Massagno T: +41 (0) 91 604 55 22 F: +41 (0) 91 605 17 85 AMSBIO Europe BV Deutschland T: +49 (0) 69 779099 F: +49 (0) 69 13376880 Key points for successful single-cell passage



ROBUST AND REPRODUCABLE CULTURE

Quantitative culture

HIGH FOLD EXPANSION

~100X expansion / passage



SINGLE-CELL PASSAGE BRIEF PROTOCOL EXAMPLE (6-WELL PLATE) AND TIPS

Aspirate the medium and wash once with 2ml of PBS



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





 Gaps in the colonies appear and dissociation of colonies is apparent



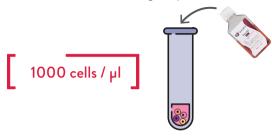
3. Gently pipette the cells to fully dissociate and transfer cells to a 15ml tube filled with 500 µl of culture medium containing 10 µM Y-27632



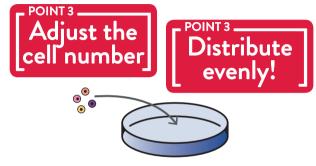
4. Count the cells and centrifuge the tubes



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



- Add 10-20 μl (1.0-2.0 x 10⁴ 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 higher seeding density when cell or colony quantity is insufficient



 Immediately distribute the cells evenly over the plate surface to avoid uneven attachment 6. After >24 hours of cultre, replace with fresh culture medium without Y-27632



- It is critical that cells are cultured in Y-27632 containing medium for more than 24 hours
- 7. Perform medium change
 - < Passage Schedule Example>



* If the colour of the medium turns orange or yellow it should be changed every day

* Do not allow cells to become confluent