

## Human induced pluripotent stem cells

PCi

### Description

*Product Ref.: PCi-XXXX [Refer to each PCi line for full Reference]*

*Thank you for purchasing PCi-XXXX, Phenocell's human iPS cells. After receiving a batch of PCi, you may follow this guide for successful culture.*

*PCi are provided in 0.5 or 1 million-cell format frozen in cryopreservation medium and are shipped in dry ice.*

### Product Information

Product	Catalog No.	Quantity	Donor
Human induced pluripotent stem cells	PCi-XXX_0.5M	5x10 <sup>5</sup> cells/vial	XXX
Human induced pluripotent stem cells	PCi-XXX_1M	10 <sup>6</sup> cells/vial	XXX

- Storage conditions : Product stable at -135°C or colder. Store in the vapor phase of a liquid nitrogen storage tank or at T°<-135°C.
- Expiration : Guaranteed for up to 12 months from date of receipt if properly stored. Use cells immediately after thawing.

### Product Use

PCi hiPSC are intended for in **vitro research use only** and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

### Safety precautions

Wear the appropriate personal protection equipment and handle the frozen vials with due caution. This product should be treated as potentially infectious and only used in adequate biological safety premises and conditions.

Do not ingest. In case of contact with eyes, rinse immediately with water for at least 15 min and seek medical advice.

Environmental measures: soak up with inert absorbent material. Clean with bleach and rinse thoroughly. Prevent further leakage or spillage if safe to do so.

Phenocell can not be held liable for any damage or losses resulting from the handling or from contact with the product.

### Before you start

PCi behave like qualified hiPSC in culture. However, if you perform PCi culture for the first time, you might feel more confident with a little help. Our skilled technical support staff is fully available at [contact@phenocell.com](mailto:contact@phenocell.com) and by phone or online. Do not hesitate to contact us to get personalized help and fully achieve your goals with PCi product.

Protocol starts on the next page.

FOR RESEARCH USE ONLY. Not intended for human or animal diagnostic or therapeutic use.

Phenocell can not guarantee the biological function or any other properties associated with performance of the product in researchers' individual culture systems. Phenocell guarantees that the product will meet the specifications only when assessed immediately after thawing using the recommended Protocol.



## 2. Passaging

### Reagents :

- CellAdhere™ Laminin-521 (StemCell Technologies, Cat #77003) coated tissue culture plates
- Dulbecco's phosphate-buffered saline with Ca<sup>++</sup> and Mg<sup>++</sup>
- mTeSR™1 Kit (StemCell Technologies, Cat #85850)
- Accutase® (Sigma, Cat #A6964)

### Protocol :

1. Culture plate coating with Laminin-521 (follow instructions from distributor).
2. For PCi maintenance, passage should be performed when colonies are the size of a 10x field of view through a binocular microscope, or when they start touching each other.
3. Pre-warm complete mTeSR™1 (basal medium with supplements) culture medium.
4. Pre-warm Accutase®.
5. Discard culture medium from culture plates, wash once with complete mTeSR™1 medium.
6. Add Accutase® (600 µL for a 35 mm dish) and incubate at 37°C for 5-10 min. Regularly check cell digestion: when individualized cells are visible within each PCi colony, use the medium present in the dish to detach the cells. Gently triturate by pipetting until there is no more clumps visible.
7. Transfer to a 15 mL tube pre-loaded with 2 mL of complete mTeSR™1 culture medium.
8. Centrifuge at room temperature, at 290 g for 3 min.
9. Eliminate supernatant and re-suspend in complete mTeSR™1 medium. **Gently** triturate until a single cell solution is obtained.
10. Count cells and plate on a Laminin-521-coated tissue culture surface at a density of 5,000-10,000 cells/cm<sup>2</sup>.
11. Place the plate into the incubator. To evenly distribute the cells, move the plate twice forward to backward and side to side, in quick motions.
12. After 48h, PCi will have formed colonies. Replace the medium with complete mTeSR™1. Change medium everyday thereafter.
13. For week-ends, change medium for 3 mL/10 cm<sup>2</sup> of fresh complete mTeSR™1 on Friday afternoon, and resume to normal culture conditions on Monday morning.