



HEK293T IPEC-J2 | 305571

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HEK293T

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Culture Medium       | DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO <sub>3</sub> , w: 1.0 mM β-mercaptoethanol (Cytion 820300a)                                                                                                                                                                                                                                                                                                                               |
| Supplements          | 10% FBS                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dissociation Reagent | Trypsin                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Subculturing         | Cells are grown in 25 cm <sup>2</sup> flasks in DMEM supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed to DMEM supplemented with 10% FBS. Cells are grown in 25 cm <sup>2</sup> flasks in DMEM supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed to DMEM supplemented with 10% FBS. |
| Seeding density      | 1-3*10 <sup>4</sup> /cm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Fluid renewal        | 1 x 2 times per week                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Freeze medium        | DMEM supplemented with 10% FBS, 10% DMSO, and 10% FBS (Cytion 820300a) + 10% DMSO                                                                                                                                                                                                                                                                                                                                                                           |

Thawing and Culturing Cells

1. Thaw cells in a 37°C water bath. Transfer cells to a 15 mL centrifuge tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend cells in DMEM supplemented with 10% FBS. Seed cells into a 25 cm<sup>2</sup> flask.
2. Incubate cells in a 37°C incubator with 5% CO<sub>2</sub>. Change the medium to DMEM supplemented with 10% FBS after 24 hours.
3. When cells reach 80-90% confluency, trypsinize and seed cells into a new 25 cm<sup>2</sup> flask.
4. Repeat the process for subsequent passages.
5. Cells can be grown in 25 cm<sup>2</sup> flasks or 12-well plates. Seed density should be 1-3\*10<sup>4</sup>/cm<sup>2</sup>.
6. Medium should be changed every 2-3 days.
7. Cells should be grown in DMEM supplemented with 10% FBS.
8. Cells should be grown in a 37°C incubator with 5% CO<sub>2</sub>.

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Incubation  
Atmosphere

37°C, 5% CO<sub>2</sub>, humidified

Shipping  
Conditions

Store at -78°C. Do not thaw. Ship on dry ice. Do not open container until ready to use.

Storage  
Conditions

Store at -150 to -196°C. Do not thaw. Ship on dry ice. Do not open container until ready to use.

IIPEC-J2 is a human pluripotent stem cell line.

Sterility

IIPEC-J2 is a human pluripotent stem cell line. It is a derivative of the H1 hESC line and is maintained in a feeder-free, serum-free medium. The cells are characterized by their ability to differentiate into all three germ layers (ectoderm, mesoderm, and endoderm) and to form germ cells. The cells are also characterized by their ability to form neural rosettes and to express markers for pluripotency (e.g., Oct4, Sox2, Klf4, and Nanog). The cells are maintained in a feeder-free, serum-free medium and are characterized by their ability to differentiate into all three germ layers (ectoderm, mesoderm, and endoderm) and to form germ cells. The cells are also characterized by their ability to form neural rosettes and to express markers for pluripotency (e.g., Oct4, Sox2, Klf4, and Nanog).