

(hDPSC) | 300702

Description	Human embryonic stem (hES) cells (DPSC, hDPSC) are pluripotent stem cells derived from the inner cell mass of human embryos. They are capable of self-renewal and differentiation into all three germ layers (ectoderm, mesoderm, and endoderm). Human embryonic stem (hES) cells (DPSCs) are pluripotent stem cells derived from the inner cell mass of human embryos. They are capable of self-renewal and differentiation into all three germ layers (ectoderm, mesoderm, and endoderm).		
Organism	Human		
Tissue	Embryonic stem cells		
Applications	Cell-based drug screening, regenerative medicine, basic research		
Growth properties	Adherent		
Citation	Human embryonic stem (hES) cells (DPSC, hDPSC) (Cytion 300702)		
Biosafety level	1		
NCBI_TaxID	9606		
Culture Medium	Alpha MEM, w: 2.0 mM L-glutamine, w/o: 10% FBS, w/o: 10% FBS, w: 10% FBS		
Supplements	FBS 10%, bFGF 2		
Dissociation Reagent	Trypsin		
Subculturing	Passage 1: 1:1 ratio into T25 flasks		

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Freeze
medium

Freeze medium: FBS 90% + DMSO 10% CM-1 (100%)

Thawing and
Culturing Cells

1. Thaw cells quickly in a water bath at 37°C.
2. Add cells to a cryovial and store at -150 °C.
3. Thaw cells quickly in a water bath at 37°C.
4. Add cells to a flask containing 70% of the medium.
5. Incubate cells for 15 minutes.
6. Add 300 x g 3 ml of medium.
7. Incubate cells for 10 minutes.
8. Add cells to a flask containing 70% of the medium.

Incubation
Atmosphere

37°C, 5% CO₂, 100% humidity

Flask Coating

100%

Freezing
Procedure

Freezing procedure: 1. Thaw cells quickly in a water bath at 37°C. 2. Add cells to a cryovial and store at -150 °C. 3. Thaw cells quickly in a water bath at 37°C. 4. Add cells to a flask containing 70% of the medium. 5. Incubate cells for 15 minutes. 6. Add 300 x g 3 ml of medium. 7. Incubate cells for 10 minutes. 8. Add cells to a flask containing 70% of the medium.

Shipping
Conditions

Shipping conditions: 1. Thaw cells quickly in a water bath at 37°C. 2. Add cells to a cryovial and store at -150 °C. 3. Thaw cells quickly in a water bath at 37°C. 4. Add cells to a flask containing 70% of the medium. 5. Incubate cells for 15 minutes. 6. Add 300 x g 3 ml of medium. 7. Incubate cells for 10 minutes. 8. Add cells to a flask containing 70% of the medium.

Storage
Conditions

Storage conditions: 1. Thaw cells quickly in a water bath at 37°C. 2. Add cells to a cryovial and store at -150 °C. 3. Thaw cells quickly in a water bath at 37°C. 4. Add cells to a flask containing 70% of the medium. 5. Incubate cells for 15 minutes. 6. Add 300 x g 3 ml of medium. 7. Incubate cells for 10 minutes. 8. Add cells to a flask containing 70% of the medium.

Sterility

PCR