

Designation:	iPSC-hDPSC

CLS order number:	Cryovial: 300622
Origin and General Cl	naracteristics
Organism:	Homo sapiens (human)
Ethnicity:	Caucasian
Age:	Adolescent, 18-30 years of age
Tissue:	Third molar
Morphology:	Fibroblast-like
Cell type:	Primary cells
Growth Properties:	Adherent
Description:	Original hDPSCs were isolated from human dental pulp tissue. The adherent cellular fraction of the enzymatically digested tissue was cultured until about 70-80% confluence. After subculturing, the cells were cryopreserved in Passage 1.
	Consent was obtained from the donor for using this cell material for research purposes. All data were anonymised ahead of the delivery to CLS GmbH.
	The CLS human episomal iPSC line was generated from hDPSCs using the episomal Reprogramming Kit provided by CET (Cellular Engineering Technologies, USA). These vectors include the Yamanaka factors (Oct-4, Sox-2, Klf-4) along with p53 Anti-sense, EBNA-1 and Red Fluorescent Protein.
Culture Conditions an	d Handling
Culture Medium:	iPSC-Growth medium, serum free (CLS order number 860201).
Subculturing:	Remove spent medium and rinse with PBS without calcium and magnesium. Add the detaching solution and let sit for 10 minutes at ambient temperature. Add fresh medium, very carefully dissociate the cells, and dispense into fresh, coated culture 6-well-plates.
Seeding density:	We recommend a seeding density of about 5,000 to 10,000 cells/cm ² , once the cells have adjusted to culturing.
Fluid Renewal:	Daily
Doubling time:	n.d.
Freeze Medium:	CM-STEM (CLS order no. 800750, serum free)
Freezing recovery:	Fast
Sterility:	Negative for Mycoplasma contamination, as confirmed by qPCR and cell-based assay (Plasmotest).
Biosafety Level:	1 The parental stock of hDPSC was controlled for the absence of HIV, HBV and HCV, and therefore is regarded as Biosafety level 1 material, as recommended by the ZKBS (Committee for Biosafety regulations in Germany).
Safety precautions:	If the cryovial is planned to be stored in liquid nitrogen and to be thawed in the future, special safety precautions should be followed:
	worn when transferring frozen samples into or removing from the liquid nitrogen tank.
	vial creating flying fragments.
	Caputo, J.L. Biosafety procedures in cell culture. J. Tissue Cult. Methods 11:223-227, 1988. ATCC Quality Control Methods for Cell Lines. 2nd edition. 1992.

Special Features of the Cell Line		
Applications:	Studies in Regenerative Medicine; Differentiation studies.	
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Certificate of Analysis:	The Certificate of Analysis for each batch can be requested by e-mail at
	service@clsgmbh.de.

Recommendations for handling of adherent cell cultures following delivery	
Cryopreserved cells	The cells come deep-frozen shipped on dry ice. Please make sure that the vial is still frozen.
	If immediate culturing is not intended, the cryovial(s) must be stored below -150°C after arrival.
	If immediate culturing is intended, please follow these instructions:
	Quickly thaw by rapid agitation in a 37°C water bath within 40-60 seconds. The water bath should have clean water containing an antimicrobial agent. As soon as the sample has thawed, remove the cryovial from the water bath. Note: A small ice clump should still remain and the vial should still be cold.
	From now on, all operations should be carried out under aseptic conditions.
	Transfer the cryovial to a sterile flow cabinet and wipe with 70% alcohol. Carefully open the vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of culture medium (room temperature). Resuspend the cells carefully. Centrifuge at 300xg for 3 min and discard the supernatant. The centrifugation step may be omitted, but in this case the remains of the freeze medium have to be removed 24 hours later.
	Resuspend the cells carefully in 5ml fresh cell culture medium and transfer them into two wells of a 6-well-plate coated with Vitronectin or comparable coatings recommended for iPSCs. All further steps are described in the Subculture section.
Proliferating Cultures	This product is not supposed to be shipped as vital culture.

Warranty:	CLS warrants for a high cell viability and culture performance only if the product(s) is (are) stored and cultured according to the information described above. Using cell culture media and supplements other than the ones recommended in this product information may result in satisfactory proliferation and viabilities. CLS, however, does not warrant for cell recovery, proliferation and function if differing formulations are employed.
Disclaimer:	The customer shall not be entitled to employ this product for purposes other than research. Commercial utilization shall not be permitted; in particular, the cell line, its components or materials made therefrom shall not be sold or transferred to any third party. In addition, the term 'Commercial use' shall mean any activity by a party for consideration and may include, but is not limited to, use of the product or its components in manufacturing, for providing services, e.g. fee for service testing, in quality control or assurance processes within the manufacturing of products for sale, for therapeutic, diagnostic or prophylactic purposes, or for resale.
Established and Manufactured by:	CLS Cell Lines Service GmbH
This product is for research use only. Not intended for any therapeutic or diagnostic use.	