

Panc 10.05 Cells | 300599

General information

Organism	Human
Tissue	Pancreas
Disease	Pancreatic ductal adenocarcinoma
Applications	3D cell culture, Cancer research
Synonyms	Panc-10.05, Panc10.05, PANC-10-05, PANC 1005, PANC1005, Panc1005, Pa16C, PL12, PL-12

Characteristics

Age	81 years
Gender	Male
Ethnicity	European
Morphology	Epithelial
Cell type	Epithelial cell
Growth properties	Adherent

Identifiers / Biosafety / Citation

Citation	Panc 10.05 (Cytion catalog number 300599)
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Biosafety level 1

Expression / Mutation

Protein expression	cytokeratin 7, cytokeratin 18
Antigen expression	MHC class I +, MHC class II -

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Oncogenes K-ras+

Tumorigenic Yes, forms tumors in nude or SCID mice

Handling

Culture Medium RPMI 1640, w: 2.1 mM stable Glutamine, w: 2.0 g/L NaHCO₃ (Cytion article number 820700a)

Medium supplements Supplement the medium with 20% heat-inactivated FBS, 10 Units/ml human recombinant insulin

Passaging solution Accutase

Freeze medium CM-1 (Cytion catalog number 800100) or CM-ACF (Cytion catalog number 806100)

Handling of cryopreserved cultures Panc 10.05 cells are shipped in a deep-frozen state on dry ice. Upon receipt, confirm that the vial remains frozen. For storage, place the cryovial immediately at temperatures below -150 degrees. If you plan to culture the cells immediately, swiftly thaw the vial by shaking it in a 37 degrees water bath with clean water and an antimicrobial agent for 40-60 seconds. Remove the vial once a small ice clump persists, ensuring it remains cold. Proceed with all subsequent steps under aseptic conditions. In a sterile flow hood, disinfect the cryovial with 70% ethanol. Then, gently open the vial and transfer the cell suspension into a 15 ml centrifuge tube pre-filled with 8 ml of room temperature culture medium. Gently mix the cells. For cell separation, centrifuge at 300 x g for 3 minutes and dispose of the supernatant. Skipping centrifugation is optional, although any residual freezing medium should be removed after 24 hours. Resuspend the pellet gently in 10 ml of fresh culture medium and divide between two T25 culture flasks. Follow the subculture protocol for subsequent steps.

Handling of proliferating cultures One or two cell culture flasks come filled with cell culture medium. Collect the entire medium in a 50 ml centrifuge tube. Spin down the collected medium at 300 x g for 3 minutes to collect the cells which may have detached during transit. If a cell pellet is visible, resuspend the cells in 5 ml of cell culture medium and transfer to a T25 cell culture flask. Carefully add 5 ml of cell culture medium to each T25 cell culture flask. Examine cell morphology and confluency using a microscope. Finally, incubate the flasks at 37 degrees Celsius for at least 24 hours.

Quality control / Genetic profile / HLA

Sterility Mycoplasma contamination is rigorously excluded using both PCR-based assays and luminescence-based mycoplasma detection methods. To ensure there is no bacterial, fungal, or yeast contamination, cell cultures are subjected to daily visual inspections.

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STR profile

Amelogenin: x

CSF1PO: 12

D13S317: 12

D16S539: 9,12

D5S818: 13

D7S820: 8,9

TH01: 6,9,3

TPOX: 11

vWA: 16

D3S1358: 14

D21S11: 30

D18S51: 15

Penta E: 11,13

Penta D: 12

D8S1179: 13,14

FGA: 20

D6S1043: 17

D2S1338: 17,18

D12S391: 17,2

D19S433: 13,14