Alphabioregen
Moving Research From 2D To 3D

Human Pancreatic Stellate Cells

Catalog Number	ALHE24
Product Name	Human Pancreatic Stellate Cells
Storage	Liquid Nitrogen Vapor Phase
Product Format	Frozen vial
Cells Number	0.5 Million

***Caution:** The handling of human derived products has the potential to be biologically hazardous. All Cell strains tested negative for HIV, HBV, and HCV DNA in diagnostic tests. Proper precautions must be taken to avoid exposure. Always wear proper protective equipment (Gloves, safety glasses, etc.) when handling these materials. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.

GENERAL INFORMATION

Human Pancreatic Stellate Cells were isolated from normal Human Pancreatic Tissue. Passage 2 cells are shipped in frozen vial. AlphaGroCell Growth Medium (Cat.#PG011) containing 5% serum and growth supplement is recommended for culture. Cells have an average population doubling level >16 when cultured using this protocol below

CELL CHARACTERIZATION

Highly synthetic myofibroblast-like cell expressing iso-alpha-smooth muscle actin	>90% positive by immunofluorescence
Desmin	20-40% positive by immunofluorescence
Strong positive staining with antibodies	Collagen types I and III, fibronectin, and laminin
Human Pancreatic Stellate Cells are negative for	HIV-1, HBV, HCV, and mycoplasma

PRODUCT USE AND SHIPPING STATUS

Product Use	Human Pancreatic Stellate Cells are for research use only
Shipping Status	Frozen vial

Alphabioregen Inc. 607 Boylston street Suite 384L Boston, MA 02116 USA.
sales@alphabioregen.com Fax: (617) 844 - 6082. Tel: (888) 982 – 8905

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Frozen Vial:

1) Coating T25 flasks. Add 2 ml AlphaBioCoat (Cat.#AC001) into a T25 flask and ensure entire interior surface is coated with the solution. After 30 minutes, dispose of AlphaBioCoat (Cat.#AC001) by aspiration. Gently rinse and aspirate flask with Phosphate Buffer Solution (Cat.#1XPBS-001). The flask is now ready for use (no need for overnight incubation when coated with AC001).
2) If you are using the coated flask the same day, add about 4 ml of AlphaGroCell Growth Media Cat.#EP011to the coated flask. If the media changes color from pink to yellow, aspirate and discard the media. Add 4ml of fresh media to the coated flask.
3) Thaw the cells in a 37°C water bath. Once you see a small amount of ice left in the vial, spray the vial with 70% Ethanol and wipe it down.
4) Transfer the vial into your Biosafety cabinet.
5) Using a 2 or 5ml pipet, pipet the cells out of the vial.
6) Transfer your cell suspension in to your coated plate that have the 4 ml media in it.
7) You should have a total working volume of 5ml of cell suspension in the flask; close the cap. Make sure cells are evenly distributed in the flask by moving the flask left and right five times. Move it up and down for an additional five times.
8) Place flask in a 37°C incubator with 5% C02. If flask is not vented, please loosen cap.
9) Change media after 48 hours.
10) To induce quiescent cells or for assay, use AlphaGroCell Basal Medium Cat.#PG011-BM
11) End of protocol

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