ANGIO-PROTEOMIE

DATA SHEET

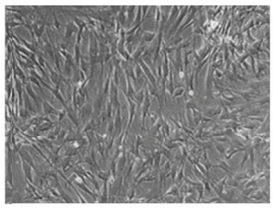
Porcine Aortic Smooth Muscle Cells

ORDER INFORMATION

Name of Cells: Porcine Aortic Smooth Muscle Cells **(PoASMCs)**
Catalogue Number: **cAP-p0003**
Product Format: Frozen Vials
Cell Number: > 5 x 10^5cells/vial

General Information:

PoASMCs (**cAP-p0003**) are isolated from adult porcine aorta. The cells are shipped in frozen vials (the cells are provided @ passage 2). Smooth Muscle Cells (SMCs) Growth Medium (cAP-24) is recommended for the expansion of PoASMCs and these cells can be propagated to extra 3-4 passages without losing their morphologic and phenotypic characteristics when cultured following the detailed protocol described below).



cAP-p0003 Porcine Aortic SMCs

Characterization of the cells

alpha-Vascular SMA: **> 98% positive by immunofluorescence**
VE-Cadherin: **< 1% positive by immunofluorescence**
PoASMCs are tested negative for mycoplasma.

Product Use: PoASMCs are for Research Use Only.

Shipping: Frozen vials with dry ice package.

Handling of Arriving Cells

When you receive the frozen vials, you can keep the frozen vials in a -80°C Freezer for short term storage or in a liquid nitrogen tank for long term storage. Frozen vials should be thawed in 37°C water bath immediately before plating the cells in to 10ml of SMCs Growth Medium (cAP-24) in a T25 flask, and the cells should be incubated in a 37°C CO2 incubator for overnight. The medium should be changed on the next day.

Subculture Protocol

A) Pre-coating of T25 flasks: Add 2ml of Quick Coating Solution (**cAP-01**) into one T25 flask and make sure whole surface of the flask is covered with the coating solution. Five minutes later, dispose excessive Quick Coating Solution by aspiration and the flask is ready to be used (no need for overnight incubation when using Quick Coating Solution). Other extracellular matrix can be used including gelatin, collagen, and fibronectin and you are advised to test the conditions for using those materials in advance.
B) Rinse the cells in T25 flask with 5ml HBSS (**Room Temperature, RT**) twice.
C) Add 2ml of Trypsin/EDTA (**RT**) (cAP-23) into one T25 flask (make sure the whole surface of the T25 flask is covered with Trypsin/EDTA), and gently dispose the excessive Trypsin/EDTA solution **within 20 seconds** with aspiration.
D) Leave the T25 flask with the cells at **RT** for 1 minute (the cells usually will detach from the surface within 1-2 minutes). You can monitor the cells under microscope and when most of cells become rounded up, hit the flask against the bench surface, and the cells will move on the surface of the flask when monitoring under microscope.
E) Add 5ml Trypsin Neutralization Buffer and spin the cells down with 800g for 5 minutes.
F) Re-suspend the cell pellet with 15ml of full medium and the cell suspension is transferred directly into 2 or 4 pre-coated T25 flasks (5ml each, and the cells are sub-cultured at 1:3 ratios)
G) Change medium every 2-3 days and cells usually become confluent within 7 days.

Related Products:

Quick Coating Solution	cAP-01	240ml	Angio-Proteomie
SMCs Growth Medium	cAP-24	500ml	Angio-Proteomie
HBSS w/o Ca^{2+}, Mg^{2+}	cAP-11	100ml	Angio-Proteomie
Cell Freezing Solution (FBS)	cAP-22	50ml	Angio-Proteomie
Cell Freezing Solution (Non-FBS)	cAP-22B	50ml	Angio-Proteomie
Trypsin/EDTA Solution	cAP-23	100ml	Angio-Proteomie
Trypsin Neutralization Solution	cAP-28	100ml	Angio-Proteomie
ITS (100x)	cAP-26	10ml	Angio-Proteomie
L-Glutamine-MAXIMUM (100x)	cAP-27	100ml	Angio-Proteomie
Human Plasma Fibronectin Solution	cAP-42	1mg/ml	Angio-Proteomie

HESE PRODUCTS ARE FOR RESEARCH USE ONLY

Caution: Handling human and animal tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, or pathogens, diagnostic tests are not necessarily 100% accurate; therefore proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working with these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.

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