ANGIO-PROTEOMIE

DATA SHEET

Mouse Cardiac Atrial Myocytes (Adult)

ORDER INFORMATION

Name of Cells: Mouse Cardiac Atrial Myocytes (MCAMyo-ad)
Catalogue Number: **cAP-m0021ad**
Product Format: Frozen Vial
Cell Number: >1 x 10^^{6} cells/vial

General Information
MCAMyo-ad cells are isolated from normal 4-week old C57/BL6 mice (From Charles River, MA USA) atrial tissue samples and shipped in a frozen vial (> 1 x 10^6 cells/vial). Cardiac Myocytes Growth Medium (cAP-41, containing 10% Fetal Bovine Serum, and supplement factors) is recommended for cell culture. MCAMyo cells have limited capacity for proliferation, and we do not recommend the long term culture of MCAMyo cells.

Characterization: MCAMyo-ad cells are tested positive for cardiomyocyte markers including alpha smooth muscle actin, alpha actinin, desmin, and Troponin T Cardiac.
MCAMyo-ad cells are tested negative for common experimental animal pathogens (screen by Charles River, MA USA) and mycoplasma in vitro.

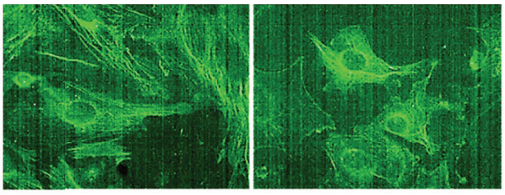
Product Use: MCAMyo-ad cells are for Research Use Only.

Shipping: Frozen vial in Dry Ice Package.

Handling of Arriving Cells

When you receive the cells in a frozen vial, you can transfer the vial of cells into a -80ºC freezer for short period storage or a liquid nitrogen tank for long term storage. Thaw the cells in a 37°C water bath, and then transfer the cells in a T75 flask pre-coated with Quick coating solution (cAP-01), containing 15ml full medium.

MCAMyo-ad cells have limited capacity for proliferation.



cAP-m0021 Mouse Cardiac Atrial Myocytes (adult) Expressing alpha-actinin

1. Subculture Protocol:

A) Rinse the cells in T75 flask with 10ml of HBSS w/o Ca2+ and Mg2+ (cAP-11) at (Room Temperature, RT) twice.
B) Add 2ml of Trypsin/EDTA Solution (**RT**) (cAP-23) into T75 flask (make sure the whole surface of the T75 flask is covered with Trypsin/EDTA), and gently dispose the Trypsin/EDTA solution **within 10 seconds** with aspiration.
C) Leave the T75 flask with the cells at **RT** for 2 minutes (the HNDFCs usually will be detached from the surface within 2 minute).
D) Add 5ml Trypsin Neutralization Buffer (cAP-28) and spin the cells down with 800g for 5 minutes.
E) Re-suspend the cells with 30ml of fresh Full medium and the cell suspension is transferred directly into 2 x T75 flasks (15ml each, and the cells are subcultured at 1:2 ratio).
F) Change medium every 2-3 days and cells usually become confluent within 7-10days (when split at a 1:2 ratio). But the cells will lose the capacity to proliferate within 2-3 passages.
G) Culture medium (full medium) is changed every 2-3 days.

Related products

Quick Coating Solution	cAP-01	240ml	Angio-Proteomie
Cardiac Myocyte Growth Medium	cAP-41	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

Caution: Handling animal tissue derived products is potentially bio-hazardous. Although each cell strain was tested negative for common experimental animal pathogens, some tests are not necessarily 100% accurate; therefore, proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working 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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