AXOL

Discovery Stems From Here

Primary Human Epithelial Colon Cells

Product Information

Catalog. No.	Product Name	Format	Stock Conc.	Storage on Arrival	Thawing Instructions	Storage Once Thawed
ax336894	Primary Human Epithelial Colon Cells - Ascending Colon	500,000 cells/vial	N/A	Place into vapor phase liquid nitrogen storage	Follow Protocol	N/A
ax3368941	Primary Human Epithelial Colon Cells - Descending Colon	500,000 cells/vial	N/A	Place into vapor phase liquid nitrogen storage	Follow Protocol	N/A
ax3368942	Primary Human Epithelial Colon Cells - Duodenum	500,000 cells/vial	N/A	Place into vapor phase liquid nitrogen storage	Follow Protocol	N/A
ax3368943	Primary Human Epithelial Colon Cells - Transverse Colon	500,000 cells/vial	N/A	Place into vapor phase liquid nitrogen storage	Follow Protocol	N/A
ax336897	Human Intestine Cell Media	100mL	N/A	Stored at -20°C until ready to use	Media should be warmed at 37°C prior to use with cells	Stored at +4°C and used within 30 days

Recommendations

For intestinal epithelial cells to effectively attach and spread on tissue culture dishes, coating the bottom of the plates with Type I Collagen. Make sure the bottom of each well is completely covered.

The recommended seeding density for intestinal epithelial cells is dependent on the colon region:
Ascending Colon: ~25,000 cells/cm2
Descending Colon: ~60,000 cells/cm2
Duodenum: ~60,000 cells/cm2
Transverse Colon: ~60,000 cells/cm2

Preparation of the Reagent

Human Intestine Cell Media

Axol's Human Intestine Cell Media is ready to use on cells and no additives are needed. Prior to using media with cells, always pre-warm the media for 10-15 min at 37°C.

Protocol Overview

Thawing and plating of Epithelial Colon Cells

- Coat the culture plates with Type I Collagen or use pre-coated culture plates.
- Place 5mL Axol's Intestine Cell Medium into 15mL centrifuge tube.
- Rapidly thaw the vial of frozen cells in a 37°C water bath until just prior to complete thawing (slurry of residual ice should be present). Thawing for longer than 2 minutes compromises cell viability. Wipe the outside of the vial with 70% ethanol.
- Transfer the cell suspension into the 15mL centrifuge tube containing 5mL of Intestine Cell Medium. Rinse the cryovial with 1mL Intestine Cell Medium and add it to the 15mL centrifuge tube.
- Centrifuge the tube at 600xg for 1 minute at room temperature to pellet the cells.
- Carefully aspirate the supernatant and resuspend in the volume of Intestine Cell Medium for the desired cell concentration and number of wells.
- Plate the desired number of cells in each well by adding the media directly to the middle of each well, being careful to not touch the bottom of each well.

Culture of Epithelial Colon Cells

- After plating, incubate cells in 5% CO2, 37°C tissue culture incubator overnight.
- Change media 24 hours after initial plating using pre-warmed Axol's Intestine Cell Medium and every 48 hours after that.
- Continue incubation at 37°C.
- Cells will be >50% confluency on day 5-7 after plating.

Usage Statement

Our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or applications to humans.

Notes

Got any questions? Need help with the protocol?
Contact Axol Technical Support at
support@axolbio.com
Or
call +44 (0) 1223 751051