

Human Airway Epithelial Cells

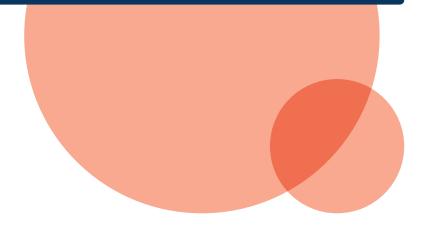






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Human Airway Epithelial Cells

Catalog. No.	Product Name	Format	Short-term Storage	Long-term Storage	Thawing Instructions
ax3001	Large Airway Epithelial Cells	500,000 cells/vial	Liquid Nitrogen	Liquid Nitrogen	See below
ax3002	Small Airway Epithelial Cells	500,000 cells/vial	Liquid Nitrogen	Liquid Nitrogen	See below
ax3515	Bronchial/Tracheal Airway Epithelial Cells	500,000 cells/vial	Liquid Nitrogen	Liquid Nitrogen	See below
ax0035	Airway Epithelial Cell Culture Medium	500 mL	4°C for 1 month	-20°C for 6 months	Thaw at 4°C or RT

Lot-specific information such as donor details and passage number are stated in the Certificate of Analysis for each product.

Recommendations

Important!

Always count the number of viable cells after thawing.

Airway Epithelial Cell Culture Medium

- Recommended culture vessel coating:
- Not required
- Recommended cell culture medium:
- Recommended seeding density:
- Recommended centrifugation speed:

5,000 viable cells/cm² 150 x g for 5 minutes

- **Thawing and Plating**
- Transfer the vial of cells from liquid nitrogen storage with the vial buried in dry ice. Remove the vial from dry ice and transfer it immediately to a 37°C water bath.
- Thaw the cells quickly in a 37°C water bath until just prior to complete thawing.
- Wipe the outside of the vial with 70% ethanol.
- Gently resuspend the cells and take an aliquot to perform a cell count.
- Immediately after thawing, slowly dilute the cells into the required volume of pre-warmed Airway Epithelial Cell
 Culture Medium (must be at least 10 mL so that the concentration of DMSO is less than 1%).
- Rinse the cryovial with 1 mL of Airway Epithelial Cell Culture Medium to ensure all of the cells are transferred.
- Seed cells into the culture vessel at the recommended seeding density of 5,000 viable cells/cm².
- Incubate the cells at 37°C, 5% CO₂ in a humidified incubator.
- Once the cells have attached (after 6-24 h), replace the culture medium with fresh pre-warmed Airway Epithelial Cell Culture Medium.
- Frequency of media changes: Every 2 days

Passaging

- Passage when the culture reaches:
- 70-80% confluent
- Recommended passaging reagent: Trypsin-EDTA
- After adding passaging reagent, incubate the cells for 5 minutes at 37°C. Observe the cells at regular intervals for detachment from the culture vessel.
- Once the cells have detached, dilute out the trypsin with pre-warmed **Airway Epithelial Cell Culture Medium**.
- Centrifuge the cells at **150** x *g* for **5** minutes.

Important!

It is important that the cells are centrifuged in order to remove the trypsin before plating the epithelial cells. Since the culture medium is serum-free, it does not contain trypsin inhibitors. Alternatively, a xeno-free trypsin inhibitor can be used.

- Remove the supernatant and resuspend in 1-2 mL of pre-warmed Airway Epithelial Cell Culture Medium.
- Perform a cell count to determine the number of viable cells.
- Dilute the cells into the required volume of pre-warmed **Airway Epithelial Cell Culture Medium**.
- Seed cells into the culture vessel at the recommended seeding density of 5,000 viable cells/cm².
- Incubate the cells at 37°C, 5% CO, in a humidified incubator.

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 application to humans.

Got any questions? Need help with the protocol? Contact Axol Technical Support at support@axolbio.com International phone +44-1223-751-051 US phone +1-800-678-AXOL (2965)

Notes



Address

Axol Bioscience Limited | Suite 3 | The Science Village | Chesterford Research Park | Little Chesterford | Cambridgeshire | CB10 1XL

International phone +44-1223-751-051

US phone +1-800-678-AXOL (2965)

Email

support@axolbio.com

Web

www.axolbio.com

