Human Renal Epithelial Cells

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Product Name</th>
<th>Product Quantity</th>
<th>Short-term Storage</th>
<th>Long-term Storage</th>
<th>Thawing Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ax3007</td>
<td>Renal Proximal Tubule Epithelial Cells</td>
<td>500,000 cells / vial</td>
<td>Liquid nitrogen</td>
<td>Liquid nitrogen</td>
<td>See below</td>
</tr>
<tr>
<td>ax3503</td>
<td>Renal Cortical Epithelial Cells</td>
<td>500,000 cells / vial</td>
<td>Liquid nitrogen</td>
<td>Liquid nitrogen</td>
<td>See below</td>
</tr>
<tr>
<td>ax3505</td>
<td>Renal Mixed Epithelial Cells</td>
<td>500,000 cells / vial</td>
<td>Liquid nitrogen</td>
<td>Liquid nitrogen</td>
<td>See below</td>
</tr>
<tr>
<td>ax3506</td>
<td>Renal Medullary Epithelial Cells</td>
<td>500,000 cells / vial</td>
<td>Liquid nitrogen</td>
<td>Liquid nitrogen</td>
<td>See below</td>
</tr>
<tr>
<td>ax3534</td>
<td>Renal Epithelial Cell Culture Medium</td>
<td>500 mL</td>
<td>4°C for 1 month</td>
<td>-20°C for 6 months</td>
<td>Thaw at 4°C or RT</td>
</tr>
</tbody>
</table>

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

**Recommendations:**

- **Always count the number of viable cells after thawing**

  - Recommended culture vessel coating: Not required
  - Recommended cell culture medium: Axol Renal Epithelial Cell Culture Medium
  - Recommended seeding density: 5,000 viable cells/cm²
  - Recommended centrifugation speed: 150 x g for 5 min

**Thawing & Plating:**

- 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.
- Slowly dilute the cells into the required volume of pre-warmed Renal 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 Renal Epithelial Cell Culture Medium to ensure all of the cells are transferred.
- Seed cells into the culture vessel at the recommended seeding density.
- Once the cells have attached (after 6-24 h), replace the culture medium.
- Frequency of media changes: Every 2 days
Passaging:

- Passage when the culture reaches: 95% confluent
- Recommended passaging reagent: Trypsin/EDTA
- Neutralize the trypsin with Renal Epithelial Cell Culture Medium and centrifuge the cells at 150 x g for 5 min.
- Remove the supernatant and resuspend in 1-2 mL of pre-warmed Renal 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 Renal Epithelial Cell Culture Medium
- Seed cells into the culture vessel at the recommended seeding density.

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.