Human Keratinocytes

Catalog No.	Product Name	Product quantity	Short-term Storage	Long-term Storage	Thawing Instructions
ax3525	Keratinocytes (Pooled Donors)	500,000 cell/vial	Liquid nitrogen	Liquid nitrogen	See below
ax3526	Keratinocytes (Single Donor, Juvenile)	500,000 cell/vial	Liquid nitrogen	Liquid nitrogen	See below
ax3527	Keratinocytes (Single Donor, Adult)	500,000 cell/vial	Liquid nitrogen	Liquid nitrogen	See below
ax3528	Keratinocyte Cell Culture Medium	500 mL	4°C for 1 month	-20°C for 6 months	Thaw at 4°C or RT
ax0044	Axol Unlock	25 mL	Aliquot and store at -80°C	-80°C	Thaw at 4°C

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 **Keratinocyte Cell Culture Medium**
- Recommended seeding density: **4,000 viable cells/cm^2**
- Recommended centrifugation speed: **200 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.
- Immediately after thawing, slowly dilute the cells into the required volume of pre-warmed **Keratinocyte 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 **Keratinocyte 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 with fresh, pre-warmed **Keratinocyte Cell Culture Medium**.
- Frequency of media changes: **Every 2 days**

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Passaging:

- Passage when the culture reaches: **70-80% confluent**
- Recommended passaging reagent: **Axol Unlock**
- When the cells have detached from the culture vessel, dilute out the passaging reagent with **Keratinocyte Cell Culture Medium** and centrifuge the cells at **200 x *g*** for **5 min**.

It is important that the cells are centrifuged in order to remove the passaging reagent before plating the keratinocytes.

- Remove the supernatant and resuspend in 1-2 mL of pre-warmed **Keratinocyte Cell Culture Medium**.
- Perform a cell count to determine the number of viable cells.
- Dilute the cells into the required volume of pre-warmed **Keratinocyte 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.

Got any questions? Need help with the protocol?
Contact Axol Technical Support at support@axolbio.com
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