

PR3D-K-50

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3D Keratinocyte Starter Kit, without Primary Keratinocytes

3D keratinocyte starter Kit was developed for the establishment of 3 dimensional keratinocyte cultures with improved barrier function. Kit includes CnT-NX Epithelial Medium (CnT-NX-E) for monolayer culture, CnT-Prime 3D Barrier Medium (CnT-PR-3D), and 48 cell culture inserts (0.4 um pore size). Kit does not contain primary keratinocytes. Optional extra: CnT-ST-100 stain solution to evaluate con uency prior to airlift.

TISSUE TYPE	Epithelia
PACK SIZE	<p>PR3D-K-50 is a kit consisting of:</p> <ul style="list-style-type: none"> • 1 x CnT-NX-E: 500 mL kit of CnT-NX Epithelial Culture Medium • 1 x CnT-PR-3D: 500 mL kit of CnT-PR-3D 3D Airlift Medium • 48 x Cell culture inserts: polycarbonate membrane, 12 mm diameter, 0.4 µm pore size • 1 x PR3D-K-50 Data sheet • 1 x PR3D-K-50 Protocol
DEFINED	Not applicable for cells
ACF	Yes
CULTURE MEDIUM	Media included in the kit: CnT-NX-E Epithelial Medium, CnT-PR-3D 3D Airlift Medium. All media are designed for use in a 5% CO ₂ atmosphere. Media must be thawed just prior to use. If lipids in 3D Barrier medium do not resolubilise in cold medium after thawing, they will be visible as a faint white layer in the bottom of the bottle. To solubilise, warm bottle to room temperature, and solubilise with gentle swirling.
CULTIVATION	To establish the 3D epidermal models, early passage primary keratinocytes growing strongly in CnT-NX-E medium are required. For recommended keratinocyte isolation, seeding and passaging instructions, please see the general cultivation protocol in the resources section of www.cellntec.com
PASSAGING	Recommended seeding density after passaging: 4 x 10 ³ cells / cm ² . For passaging instructions, please see also general cultivation protocol, on our resources section.
AV. TIME TO CONFLUENCE	5 to 7 days for monolayer culture of keratinocytes growing in CnT-Prime medium (depending on temperature, seeding density and protocol)
STORAGE / SHELF LIFE	Store frozen below -15 °C. For best before date, see label. To prepare medium for use, thaw in a water bath set to room temperature. Do not use higher temperatures. Swirl frequently, approximately every 20 min, to ensure good mixing of the ingredients and temperature equilibration. Stop at melting of the last bit of ice to prevent warming at the end of the thawing process. Once thawed, medium has a remaining shelf-life of 6 weeks when stored at 4 °C in the dark. Important: The quality of cell culture media is rapidly degraded by light. Store in the dark, and minimize all light exposure during handling. Inserts: room temperature. One year from date of purchase.
QUALITY CONTROL	Media tested free of bacteria, fungi and mycoplasma contamination.
SHIPPING CONDITION	All kit components are together on dry ice.
COMMENTS	HPEKp primary keratinocytes and all culture media can also be purchased individually. CnT-ST-100 stain solution for evaluation of con uency prior to airlift is also available separately.
INTENDED USE	For research use only. Not for use in therapy or diagnostics.
LAST UPDATE	2024-12-11.