

PR3D-HPEK-50

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3D Keratinocyte Starter Kit including Primary Keratinocytes

3D keratinocyte starter Kit with Primary Keratinocytes provides all components required for the establishment of 3 dimensional keratinocyte cultures with improved barrier function. The kit includes primary human keratinocytes, CnT-Prime Medium (CnT-PR) for monolayer culture, CnT-Prime 3D Barrier Medium (CnT-PR-3D), and 48 cell culture inserts (0.4 um pore size). Optional extra: CnT-ST-100 stain solution for evaluating confluency prior to airlift.

The cells are of human origin and should therefore be handled as hazardous. Although it has been tested negative for HIV 1, Hepatitis B and Hepatitis C, treat this material as potentially infectious, and use appropriate biocontainment, protective equipment and other precautions to prevent accidental exposure.

SPECIES	HPEKp Keratinocytes: Human, pooled (3 or more donors), juvenile.
TISSUE TYPE	Epithelia
PACK SIZE	<p>PR3D-HPEK-50 is a kit consisting of:</p> <ul style="list-style-type: none"> • 1 x HPEKp: Human Epidermal Keratinocyte Progenitors > 5 x 10⁵ viable cells per vial (1 mL) • 1 x CnT-PR: 500 mL kit of CnT-Prime Epithelial Culture Medium • 1 x CnT-PR-3D: 500 mL kit of CnT-Prime 3D Airlift Medium • 48 x Cell culture inserts: polycarbonate membrane, 12 mm diameter, 0.4 µm pore size • 1 x PR3D-HPEK-50 Data sheet • 1 x PR3D-HPEK-50 Protocol
DEFINED	Yes
ACF	Yes
CULTURE MEDIUM	Media included in the kit: CnT-PR 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	For thawing, 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 (depending on temperature, seeding density and protocol)
LONGEVITY	Keratinocytes guaranteed to provide 20 population doublings when grown in CnT-Prime medium. For optimal 3D stratification, use cells within 12 population doublings of thawing.
STORAGE / SHELF LIFE	Immediately upon arrival transfer the cryo vial to the liquid nitrogen container, until ready to use. 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.
THAWING	Recommended seeding density after thawing: 2 to 4 x 10 ³ cells / cm ² . For thawing instructions, please see also general cultivation protocol, on the resources section of www.cellntec.com
FREEZING	Recommended freezing density: 1 x 10 ⁶ cells / mL. For freezing instructions for keratinocytes, please see also general cultivation protocol, on the resources section of www.cellntec.com

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QUALITY CONTROL	Primary cells tested negative for Hepatitis B, Hepatitis C and HIV-1. Media tested free of bacteria, fungi and mycoplasma contamination.
SHIPPING CONDITION	All kit components are shipped together on dry ice.
COMMENTS	All kit components can be purchased separately. Optional extra available separately: CnT-ST-100 for evaluating confluence prior to air-lift.
INTENDED USE	For research use only. Not for use in therapy or diagnostics.
LAST UPDATE	2023-03-14.