

# PRFT-CELLS-24

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## 3D FT Starter Kit (With Cells)

Starter kit containing all components necessary for the establishment of 3 dimensional full thickness skin models at the air-liquid interface. The kit includes primary human keratinocytes, primary human dermal fibroblasts, CnT-NX-E and CnT-PR-F proliferation media, CnT-PR-FTAL5 medium for full thickness air-lift culture, CnT-SP spacer plate and 24 cell culture inserts (0.4 µm pore size).

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.

<b>SPECIES</b>	Primary human keratinocytes and fibroblasts (juvenile)
<b>TISSUE TYPE</b>	Epithelia
<b>PACK SIZE</b>	<p>PRFT-CELLS-24 is a kit consisting of:</p> <ul style="list-style-type: none"> <li>• 1 x HPEKp: Human Epidermal Keratinocyte Progenitors, &gt; 5 x 10<sup>5</sup> viable cells per vial (1 mL)</li> <li>• 1 x HDFp: Human Dermal Fibroblasts, 5 x 10<sup>5</sup> viable cells per vial (1 mL)</li> <li>• 1 x CnT-NX-E: 500 mL kit of CnT-NX Epithelial Culture Medium</li> <li>• 1 x CnT-PR-F: 500 mL kit of CnT-Prime Fibroblast Culture Medium</li> <li>• 1 x CnT-PR-FTAL5: 500 mL kit of CnT-Prime FTAL5 Full Thickness Air-Lift Culture Medium</li> <li>• 1 x CnT-SP: Spacer Plate for 12-Well Plates</li> <li>• 24 x FT Inserts: 12 mm diameter, 0.4 µm pore size</li> </ul>
<b>DEFINED</b>	Not applicable for cells
<b>ACF</b>	No
<b>CULTURE MEDIUM</b>	Media included in the kit: CnT-NX-E Epithelial Medium (keratinocyte proliferation), CnT-PR-F Fibroblast Medium ( fibroblast proliferation), CnT-PR-FTAL Full Thickness Air-Lift Medium. All media are designed for use in a 5% CO <sub>2</sub> atmosphere. Media must be thawed overnight at 4°C just prior to use.
<b>CULTIVATION</b>	For thawing, seeding and passaging instructions, please see the general cultivation protocol in the resources section of <a href="http://www.cellntec.com">www.cellntec.com</a>
<b>PASSAGING</b>	Recommended seeding density after passaging in 2D culture: 4 x 10 <sup>3</sup> cells / cm <sup>2</sup> (keratinocytes) and 1 x 10 <sup>3</sup> cells / cm <sup>2</sup> ( fibroblasts). For passaging instructions, please see also general cultivation protocol, on our resources section.
<b>AV. TIME TO CONFLUENCE</b>	5 to 6 days for monolayer culture of keratinocytes (depending on temperature, seeding density and protocol)
<b>LONGEVITY</b>	For optimal 3D stratification, use cells within 10-12 population doublings of thawing.
<b>STORAGE / SHELF LIFE</b>	Cells: Immediately upon arrival transfer the cryo vials to the liquid nitrogen container, until ready to use. Medium: 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 remaining shelf-life of 6 weeks when stored at 4 °C in the dark. <b>Important:</b> 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.
<b>THAWING</b>	Recommended seeding density after thawing: 2 to 4 x 10 <sup>3</sup> cells / cm <sup>2</sup> . For thawing instructions, please see also general cultivation protocol, on the resources section of <a href="http://www.cellntec.com">www.cellntec.com</a>
<b>FREEZING</b>	Recommended freezing density: 1 x 10 <sup>6</sup> cells / mL. For freezing instructions for keratinocytes, please see also general cultivation protocol, on the resources section of <a href="http://www.cellntec.com">www.cellntec.com</a>
<b>QUALITY CONTROL</b>	Primary cells tested negative for Hepatitis B, Hepatitis C and HIV-1. Media tested free of bacteria, fungi and mycoplasma contamination.
<b>SHIPPING CONDITION</b>	The kit components are shipped in two separate boxes (one of them on dry ice).
<b>COMMENTS</b>	All kit components can all be purchased separately.
<b>INTENDED USE</b>	For research use only. Not for use in therapy or diagnostics.
<b>LAST UPDATE</b>	2024-12-11