

CnT-PR-D

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CnT-Prime Epithelial 2D Differentiation Medium

CnT-PR-D is a chemically defined, animal-component free formulation designed for differentiation of epithelial cells from skin, cornea, gingiva, mammary and bladder cells.

SPECIES	Developed for primary human epithelial cells. May be used for other species as well, including mouse.
TISSUE TYPE	Epithelia
PACK SIZE	500 mL bottle, fully supplemented with growth factors. No further additions required.
PRODUCT USE	Developed to encourage terminal differentiation of primary epithelial cells in a fully defined environment. For optimal differentiation, epithelial cells must be grown to confluence, and then additional calcium added. For detailed instructions, please see the differentiation protocols in the resources section of www.cellntec.com . For differentiation of epidermal keratinocytes in 3D airlift culture, use CnT-PR-3D medium for improved barrier function.
MEDIA TYPE	2D-Diff
DEFINED	Yes
ACF	Yes
CULTURE CONDITION	This medium is designed for use in a 5% CO ₂ atmosphere. For suggested isolation, passaging, differentiation and freezing protocols, please visit the resources section of www.cellntec.com
NOTE	For routine cell cultivation, CELLnTEC does not recommend the use of antibiotics / antimycotics. This is particularly important during differentiation.
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. Certain culture media components are very sensitive to light. Minimize light exposure at all times.
QUALITY CONTROL	Media composition is tested via osmolality, pH and the concentration of various ions. Media functionality is tested by evaluating growth and morphology of primary human epithelial cells over at least 2 passages. Free of bacteria, fungi and mycoplasma contamination.
SHIPPING CONDITION	Medium is shipped frozen.
INTENDED USE	For research use only. Not for use in therapy or diagnostics.
LAST UPDATE	2021-01-01