

Media Selection Guide

Tissue / Cells	Species	PCT Media (Defined)	PCT Media (Low BPE)	Non-PCT (2D Differentiation)	Non-PCT (3D Differentiation)
Keratinocytes 角化细胞	人/小鼠	CnT-07	CnT-57	CnT-02	CnT-02-3DP
	大鼠	CnT-03		CnT-33	
Cornea 眼角膜	人/小鼠	CnT-20	CnT-50	CnT-30	
Oral 口腔	人/小鼠	CnT-24		CnT-32	
Mammary 乳腺	人/小鼠	CnT-27	CnT-54	CnT-22	
Prostate 前列腺	人/小鼠	CnT-12*	CnT-52*		
	大鼠	CnT-11*			
Airway 肺气道	人/小鼠	CnT-17		CnT-23	
	大鼠	CnT-14		CnT-34	
Bladder 膀胱	人/小鼠	CnT-18	CnT-58	CnT-21	
	大鼠	CnT-16		CnT-36	
Vaginal 阴道	人/小鼠	CnT-19	CnT-55	CnT-39	
Fibroblasts 成纤维细胞	人/小鼠 /大鼠	CnT-05*			
Keratinocytes 角化细胞	山羊	CnT-08*#			
	狗	CnT-09*#			

* Contains serum #Also used for differentiation

CELLnTEC's precision media are specifically designed for either isolation and / or cultivation of primary cells (Progenitor Cell Targeted / PCT media) or to allow differentiation (non-PCT media).

- PCT Defined Media:** Specifically retain progenitor cells in a proliferative state. They offer high efficiency isolation and growth for primary epithelial cell culture in a completely defined environment.
- PCT Low-BPE Media:** Combine all the progenitor cell retention benefits of PCT with the growth and adhesion boost of BPE for the absolute best cell isolation and growth performance, or when the quality of the starting tissue is not optimal.
- Non-PCT Defined Media - 2D Differentiation:** Defined media used for cultivation and in situations where cells are induced to differentiate (high calcium trigger may be required, see protocols).
- Non-PCT Defined Media - 3D Differentiation:** Defined media used for differentiation of cells in three dimensional culture. Contains all the components to initiate differentiation, while keeping a subset of proliferation active cells. No further additions required. Full protocols can be found in the [resources section](#) of this website.

Other Epithelia

CELLnTEC's media were developed for the range of epithelia that are listed in the products section to the left. However, more and more publications and reports show that CELLnTEC's precision approach to epithelial culture media can be used to culture a broad range of other epithelial cells as well.

Below you can find some examples where CELLnTEC media has been successfully used on other epithelia. So if your epithelium is missing in our product portfolio, see below, or contact scientist@cellntec.com for advice on which media would be best to use with your cells.

Dental Epithelium

Two recent publication showed the use of CnT-02 and CnT-57 for dental epithelium cell culture.

[Asaka et al.](#) describe the use of CnT-57 to isolate and cultivate murine dental epithelium cells and CnT-02 for their differentiation.

[Notani et al.](#) were using CnT-02 for the construction of a 3D and layered culture of ameloblasts and pulp-derived cells of rat (enamel epithelial cells).

Esophagus Epithelium

An in vivo transplant culture system for mouse esophagi was created using esophageal epithelium cultured in a 3D tissue reconstruction assay using CnT-07 by [Wang et al.](#)

Lacrimal Gland Epithelium

Isolation and cultivation of exorbital lacrimal gland epithelial cells from mice was carried out by [Ueda et al.](#) in CnT-07.

Pancreatic Duct Epithelium

Three publications ([Friedmann et al.](#), [Lin et al.](#), and [Lin et al.](#)) describe the use of CnT-07CF for the cultivation of their immortalized pancreatic duct epithelial cells.

Thymus Epithelium

For a 3D colony assay with mouse thymus epithelial cells, CnT-02 containing 50% Matrigel was used by [Senoo et al.](#)