

Product Description

Primary Human Renal Cortical Epithelial Cells (HRCEpC) are isolated from the cortex of the human kidney and stain positive for cytokeratin. The renal cortex is the outer portion of the kidney between the renal capsule and the renal medulla. It contains the renal corpuscles, the proximal and distal convoluted tubules, and the cortical collecting ducts. HRCEpC provide a useful in vitro model to study a variety of renal diseases and important physiological processes like osmoregulation and excretion.

iXCells Biotechnologies provides high quality HRCEpC, which are isolated from human kidneys and cryopreserved at P1, with >0.5 million cells in each vial. HRCEpC express cytokeratin-18, -19 and vimentin. They are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 12 population doublings in Epithelial Cell Growth Medium (Cat# MD-0041) under the condition suggested by iXCells Biotechnologies.

Product Details

Tissue	Human kidney cortex
Package Size	0.5 million cells/vial
Passage Number	P1
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Epithelial Cell Growth Medium (Cat# MD-0041)

References

- [1] Palmer, L. M., Reilly, T. J., Utsalo, S. J. and Donnenberg, M. S. (1997) Internalization of Escherichia coli by human renal epithelial cells is associated with tyrosine phosphorylation of specific host cell proteins. *Infect Immun.* 65 (7): 2570-2575.
- [2] Schmodder, R. L., Strieter, R. M., Wiggins, R. C., Chensue, S. W. and Kunkel, S. L. (1992) In vitro and in vivo interleukin-8 production in human renal cortical epithelia. *Kidney Int* 41(1):191-8.
- [3] Wuthrich, R. P., Glimcher, L. H., Yui, M. A., Jevnikar, A. M., Dumas, S. E. and Kelley, V. E. (1990) MHC class II, antigen presentation and tumor necrosis factor in renal tubular epithelial cells. *Kidney Int* 37(2):783-92.

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