

## **Product Description**

### ***Normal Human Kidney Cortical cells***

**(NhKC)** are isolated from the kidney cortex after removal of the kidney capsule and medulla.

The cell composition is a heterogeneous population of cells composed by different types of cells. The major type of cells that can be identified are:

- Proximal tubules
- Distal tubules
- Endothelial cells (including glomerular endothelial cells)
- Mesangial cells
- Podocytes
- Interstitial fibroblast
- Residing renal adult progenitor cells
- Juxtaglomerular cells

Other than the adult progenitor cells, the NhKC are terminally differentiated.

The NhKC cells are for research use only and not approved for human or animal use, nor for in vitro diagnostic testing.

## **Applications**

NhKC cells can be used for general research, drug and toxicity screening, drug transporter research, tissue engineering.

NhKC cells, are a good source for use in an in vitro model for studying the function and pathophysiology of the kidney.

NhKC cells are a perfect source for FACS selection of more homogenous populations of multiple renal cell types.

NhKC cells are isolated using animal-free conditions and enzymes isolated from bacteria.

## **Product Storage**

Upon receipt, immediately transfer each cryovial into the vapor phase of a liquid nitrogen storage tank. Cells are viable for at least 2 years when stored under these conditions.

### **Quality Control Testing**

QC testing results provided will consist of the following:

Date of manufacture: MM/DD/YYYY

Estimates of the amounts of the various cell types will be provided.

#### **Donor Characteristics include**

Donor age, sex, race, diabetic status, smoking history, alcohol use, and any co-morbidities

#### **Serology results include (positive or negative):**

CMV, EBV HBV, HCV, HIV-1, HIV-2, and HLTV-1 and HLTV-2 (only if performed)

#### **Culture results include (positive or negative):**

Mycoplasma, fungi and yeast

### **Product Warranty**

Cryopreserved proliferating NhKC cells are assured to be viable and functional when thawed and maintained properly.

***THESE PRODUCTS ARE FOR RESEARCH USE ONLY.*** Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or in vitro procedures.

***WARNING:*** Primary human cell products are derived from whole human organs, thus should be treated as potentially infectious. Blood samples from the donor are tested and found non-reactive using FDA approved test kits in CLIA certified labs and are testing for the presence of HIV-I/II, Hepatitis B Virus and Hepatitis C Virus. In some cases, but not all, HTLV-1 and 2 are tested and reported.

Test results do not offer complete assurance that HIV-I/II, Hepatitis B Virus, and Hepatitis C Virus are absent. All human sourced products should be handled at the appropriate Biological Safety Level in order to minimize exposure of potentially infectious products.