

**LLC-PK1 | 607264**

**LLC-PK1**

**Description**

LLC-PK1 is a cell line derived from a porcine kidney. It is a continuous cell line that grows in the presence of insulin, transferrin, and selenium (ITS). LLC-PK1 cells are used for the production of viral vaccines, particularly for the production of influenza virus. The cells are highly permissive for a wide range of viruses, including influenza A and B viruses, and are also used for the study of viral replication and host cell interactions.

**Organism** Porcine

**Tissue** Kidney

**Applications** Production of viral vaccines, study of viral replication and host cell interactions.

**Synonyms** LLC-PK(1), LLC-PK-1, LLC PK-1, LLC PK-1, LLc-PK1, LLC PK1, LLCPK1, LLc-PK1, LILI Laboratories Cell-Porcine Kidney 1

**LLC-PK1**

**Breed/Subspecies** Porcine

**Age** 3-4 weeks

**Gender** Male

**Morphology** Epithelial cells

**Growth properties** Adherent

**LLC-PK1**

**Citation** LLC-PK1 (ATCC CCL-22) | ATCC 607264

**Biosafety level** Biosafety level 1 (BSL-1). Pathogen-free, free of mycoplasmas and other contaminants.



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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 10 ml of pre-warmed medium.
3. Seed the cells into a T75 flask containing 37 ml of pre-warmed medium.
4. Incubate the cells at 37°C in a 5% CO<sub>2</sub> atmosphere until they reach 70% confluency.
5. Harvest the cells by trypsinization. Seed 15 x 10<sup>6</sup> cells into 8 T75 flasks.
6. Seed 300 x 10<sup>6</sup> cells into 3 T75 flasks. Incubate the cells at 37°C in a 5% CO<sub>2</sub> atmosphere.
7. Harvest the cells by trypsinization. Seed 10 x 10<sup>6</sup> cells into 1 T75 flask.
8. Harvest the cells by trypsinization. Seed 10 x 10<sup>6</sup> cells into 1 T75 flask.

Incubation Atmosphere

37°C, 5% CO<sub>2</sub>

Flask Coating

Not required

Freezing Procedure

Resuspend cells in freezing medium and store at -80°C.

Shipping Conditions

Store at -80°C during shipping.

Storage Conditions

Store at -150°C to -196°C.

HLA

Sterility

Cells are provided in a sterile, cryoprotected medium. PCR testing is available.