

LLC-PK1 | 607264

Product information

Description

LLC-PK1 is a cell line derived from a porcine kidney. It is a continuous cell line that is highly resistant to trypsin digestion. LLC-PK1 cells are used for the production of viral vaccines, particularly for the production of porcine circovirus (PCV2) and porcine parvovirus (PPV). The cells are characterized by their high confluency and ability to form large, flat monolayers. LLC-PK1 cells are also used for the study of cell growth and differentiation.

Organism Porcine

Tissue Kidney

Applications Production of viral vaccines, study of cell growth and differentiation.

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

Characteristics

Breed/Subspecies Porcine

Age 3-4 weeks

Gender Male

Morphology Epithelial

Growth properties Adherent, high confluency, forms large flat monolayers.

Quality control

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

Biosafety level Biosafety Level 1 (BSL-1). Pathogen-free, free of mycoplasmas and PCOV.

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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 pre-warmed medium.
3. Seed the cells into a pre-warmed flask containing 37 mL of pre-warmed medium.
4. Incubate the cells at 37°C in a 5% CO₂ atmosphere until they reach 70% confluency.
5. Pass the cells into a new flask when they reach 15-20% confluency. Split ratio 1:8.
6. Seed the cells into a 300 x 3 mm flask containing 3 mL of pre-warmed medium.
7. Incubate the cells at 37°C in a 5% CO₂ atmosphere until they reach 100% confluency.
8. Harvest the cells by trypsinization and centrifugation.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating No coating

Freezing Procedure Harvest cells and resuspend in freezing medium. Store at -80°C.

Shipping Conditions Store at -80°C.

Storage Conditions Store at -150°C to -196°C.

HLA

Sterility The cells are free of mycoplasmas and other contaminants. PCR testing is available.