

Product sheet

MDCK (NBL-2) | 602280

MDCK (NBL-2)

Description

MDCK (Madin-Darby Canine Kidney) is a cell line derived from a 15-month-old dog with a malignant tumor of the kidney. It is a continuous cell line that grows in the presence of serum and is highly adapted to growth in the presence of serum. MDCK cells are used for the study of cell-cell interactions, cell polarity, and cell signaling. MDCK cells are also used for the study of viral replication, particularly for the study of influenza A virus. MDCK cells are highly adapted to growth in the presence of serum and are highly resistant to trypsin digestion. MDCK cells are highly adapted to growth in the presence of serum and are highly resistant to trypsin digestion.

Organism Dog

Tissue Kidney

Synonyms MDCK, NBL-2, Madin-Darby Canine Kidney, Madin Darby Canine Kidney

MDCK (NBL-2)

Breed/Subspecies Dog

Age 15 months

Gender Male

Morphology Epithelial

Cell type Epithelial

Growth properties Serum dependent, adherent

MDCK (NBL-2)

Citation MDCK (NBL-2) (MDCK (NBL-2) Cytion 602280)

Biosafety level 1

NCBI_TaxID 9615

CellSaurusAccession CVCL_0422

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Thawing and Culturing Cells

1. Thaw the vial immediately in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed T25 flask containing 10 mL of DMEM supplemented with 10% FBS.
2. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C until cells reach 70-80% confluency.
3. Once cells reach 70-80% confluency, remove the FBS and replace with DMEM supplemented with 2% FBS.
4. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C until cells reach 70% confluency.
5. Seed cells into a 15 mL T25 flask containing 8 mL of DMEM supplemented with 2% FBS.
6. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C until cells reach 70-80% confluency.
7. Seed cells into a 10 mL T25 flask containing 8 mL of DMEM supplemented with 2% FBS.
8. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C until cells reach 70-80% confluency.

Incubation Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

None

Freezing Procedure

Remove the medium and wash cells with PBS. Add 1 mL of freezing medium to the flask and incubate for 15 minutes. Harvest cells by trypsinization and resuspend in 1 mL of freezing medium. Aliquot into 1 mL vials and store at -80°C.

Shipping Conditions

Store at -80°C. Ship on dry ice in a cool box.

Storage Conditions

Store at -150°C for up to 196 weeks.

MDCK (NBL-2) / MDCK (NBL-2) / HLA

Sterility

MDCK (NBL-2) cells are tested for sterility using PCR. MDCK (NBL-2) cells are tested for sterility using PCR. MDCK (NBL-2) cells are tested for sterility using PCR.