

### MDCK-II | 305233

#### MDCK-II

**Description**

MDCK-II (MDCK-II) is a cell line derived from the kidney of the dog (Canis familiaris). It is a continuous cell line that is widely used in research, particularly in the study of viral infections and drug development. The cells are epithelial in nature and are characterized by their ability to form polarized monolayers.

**Organism** Canis familiaris

**Tissue** Kidney

**Synonyms** MDCK II, MDCKII, MDCKII, MDCK2, MDCK-2, MDCK Type II, MDCKII-WT

#### MDCK-II

**Breed/Subspecies** Domestic dog (Canis familiaris)

**Age** Adult

**Gender** Male

**Cell type** Epithelial

**Growth properties** Adherent

#### MDCK-II

**Citation** MDCK-II (ATCC CCL-32) (305233)

**Biosafety level** 1

**NCBI\_TaxID** 9615

**CellSaurusAccession** CVCL\_0424

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**Culture Medium** EMEM (MEM Eagle) 2 mM L-Glutamine-2.2 g/l NaHCO3 EBSS ( Gibco 820100a )

**Supplements** 10 mM FBS 1 mM Penicillin 1 mM Streptomycin

**Dissociation Reagent** Trypsin

**Subculturing** Cells are cultured in MEM medium supplemented with 10% FBS and 1% Penicillin/Streptomycin in PBS.

**Freeze medium** MEM medium supplemented with 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
  2. Centrifuge cells at 300 x g for 3 minutes.
  3. Wash cells with PBS.
  4. Resuspend cells in MEM medium supplemented with 70% FBS.
  5. Seed cells into a T75 flask.
  6. Incubate cells for 15 days.
  7. Harvest cells after 8 days.
  8. Store cells at -80°C.

**Incubation Atmosphere** 37°C, 5% CO2

**Flask Coating** None

**Freezing Procedure** Seed cells into a T75 flask and freeze at -80°C.

**Shipping Conditions** Dry ice, -78°C

Product sheet

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**Storage Conditions**      -150 °C -196 °C

HLA

**Sterility**      (PCR)