

Product sheet

MDCK-II | 305233

MDCK-II

**Description** MDCK-II (Madin-Darby Canine Kidney type II) is a cell line derived from a 15-month-old female dog. It is a continuous cell line that grows in the presence of insulin, transferrin, and selenium (ITS). MDCK-II cells are used for the production of viral vaccines, particularly for canine distemper virus (CDV) and rabies virus. The cells are characterized by their ability to form a polarized epithelial monolayer.

**Organism** Canine

**Tissue** Kidney

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

MDCK-II

**Breed/Subspecies** Canine

**Age** 15 months

**Gender** Female

**Cell type** Epithelial

**Growth properties** Epithelial

MDCK-II

**Citation** MDCK-II (MDCKII) Cytion 305233

**Biosafety level** 1

**NCBI\_TaxID** 9615

**CellSaurusAccession** CVCL\_0424

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**Culture Medium** EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO<sub>3</sub>, w: EBSS (Cytion 820100a)

**Supplements** 10% FBS 1% NEAA

**Dissociation Reagent**

**Subculturing** ... T25, ... 3-5 ... 3 ...

**Freeze medium** ... (FBS) + 10% DMSO ...

- Thawing and Culturing Cells**
1. ...
  2. ... -150°C ...
  3. ... 37 ...
  4. ... 70% ...
  5. ... 15 ... 8 ...
  6. ... 300 x g ... 3 ...
  7. ... 10 ...
  8. ...

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, ...

**Flask Coating** ...

**Freezing Procedure** ... -78°C

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Shipping Conditions

Store at -78°C

Storage Conditions

Store at -150 to 196 °C

HLA

Sterility

PCR  
Sterility