

MDCK

CSI383Ca11 Instruction manual

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Dec, 2023)

[DESCRIPTION]

MDCK (NBL-2) cells were isolated from normal kidney tissue from a normal, adult, female cocker spaniel. TMDCK (NBL-2) is used in toxicology and industrial biotechnology research.

Synonyms: MDCK (NBL-2); NBL-2 Organism: Canis familiaris, dog Tissue Source: Kidney Disease: Normal Gender: Female Cell Type: Epithelial Growth Properties: Adherent

[PROPERTIES]

Cell activity: >95% (Viability by Trypan Blue Exclusion).
Formulation: Frozen 1 mL or T25 flask.
Biosafety: Negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast and fungi.
Applications: For research use only. It is not approved for human or animal use, or for application in clinical diagnostic procedures.
Size: >5×10⁵cell/vial

[STORAGE]

Upon receiving, directly and immediately transfer the cells from dry ice to liquid nitrogen and keep the cells in liquid nitrogen until they are needed for experiments.

Form & Buffer: Supplied as solution form in frozen stock solution, containing 50% base medium +40%FBS+10%DMSO.

Storage conditions: liquid nitrogen

[USAGE]

Culture conditions:

Complete growth medium: MEM+10%FBS+1%Penicillin-Streptomycin Solution Temperature: 37°C Condition: 95% air, 5% carbon dioxide

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Cell recovery:

- 1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the cap out of the water. The thawing time is about 2 minutes.
- 2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by spraying with 75% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
- 3. Transfer the vial contents to a centrifuge tube containing 9.0mL complete culture medium. and spin at approximately 1000 rpm for 5 minutes.
- 4. Resuspend cell pellet with the recommended complete medium . and dispense into a T25 culture flask.
- **5.** Incubate the culture at 37° C, 5% CO₂ in a suitable incubator.

Cell passage:

- 1. Cell passage when cell growth at 85-95%.
- 2. Remove and discard culture medium and wash with PBS 1-2 times.
- 3. Add 1.0 mL of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 2 to 3 minutes. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal). Stop digestion by adding 2-3 ml of complete medium containing 10% serum. Make it a single cell suspension.
- 4. Add the fresh medium to resuspend the cells. Unless otherwise stated, the recommended ratio of primary cells is 1/3-1/4.

[Shipping]

Dry ice.

[IMPORTANTNOTE]

- 1. The cell is for research use only, and we will not be responsible for any issue if the cell was used in clinical diagnostic or any other procedures.
- 2. Read the instructions carefully, and keep and operate in strict accordance with the instructions.
- 3. After cell recovery, please take regular microscopic examination and photos to record the growth status of cells.
- 4. If you observe abnormalities or have questions about cell culture operations, please contact us in time.