

MDBK (NBL-1) | 600396

General Information

Description

MDBK (NBL-1) is a cell line derived from a mouse. It is a fibroblast cell line that is used for various research purposes. The cell line is characterized by its ability to grow in culture and its sensitivity to certain treatments. It is a clonal cell line that is derived from a single cell. The cell line is maintained in a specific medium and is used for various research purposes. The cell line is characterized by its ability to grow in culture and its sensitivity to certain treatments. It is a clonal cell line that is derived from a single cell. The cell line is maintained in a specific medium and is used for various research purposes.

Organism

Tissue

Synonyms MDBK (NBL-1) NBL-1

Characteristics

Breed/Subspecies

Age

Gender

Morphology

Growth properties

Identification

Citation MDBK (NBL-1) (| 600396)

Biosafety level 1

NCBI_TaxID 9913

CellosaurusAccession CVCL_0421

Product sheet

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General Information

Viruses	MDBK (NBL-1) (BVD).
Virus susceptibility	MDBK (NBL-1) is susceptible to BVD (Bovine Viral Diarrhea) virus.
Virus resistance	MDBK (NBL-1) is resistant to BVD.
Reverse transcriptase	MDBK (NBL-1) does not contain reverse transcriptase.
Products	MDBK (NBL-1) is available as a cell line.

Culture Conditions

Culture Medium	EMEM (MEM Eagle) 2x, 2.2g NaHCO ₃ , EBSS (820100a).
Supplements	10% FBS, 1% Penicillin, 1% Streptomycin.
Dissociation Reagent	Trypsin.
Subculturing	MDBK (NBL-1) cells are cultured in EMEM (MEM Eagle) 2x, 2.2g NaHCO ₃ , EBSS (820100a) with 10% FBS, 1% Penicillin, 1% Streptomycin.
Seeding density	1 × 10 ⁴ cells.
Fluid renewal	3 days.
Post-Thaw Recovery	MDBK (NBL-1) cells are cultured in EMEM (MEM Eagle) 2x, 2.2g NaHCO ₃ , EBSS (820100a) with 10% FBS, 1% Penicillin, 1% Streptomycin.
Freeze medium	MDBK (NBL-1) cells are cultured in EMEM (MEM Eagle) 2x, 2.2g NaHCO ₃ , EBSS (820100a) with 10% FBS, 1% Penicillin, 1% Streptomycin.

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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 10 ml of pre-warmed medium.
3. Seed the cells into a T75 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. Harvest the cells by trypsinization. Seed 15 x 10⁶ cells into 8 T75 flasks.
6. Harvest the cells by trypsinization. Seed 300 x 10⁶ cells into 3 T75 flasks.
7. Harvest the cells by trypsinization. Seed 10 x 10⁶ cells into 10 T75 flasks.
8. Harvest the cells by trypsinization. Seed 10 x 10⁶ cells into 10 T75 flasks.

Incubation Atmosphere

37°C, 5% CO₂

Flask Coating

Yes

Freezing Procedure

Use a cryoprotectant solution containing 10% FBS and 10% DMSO. Freeze at -80°C.

Shipping Conditions

Store at -78°C during shipping.

Storage Conditions

Store at -150°C to -196°C.

MDBK (NBL-1) / HLA

Sterility

MDBK (NBL-1) is tested for sterility using PCR. The results are negative.