

MDBK (NBL-1) | 600396

General Information

Description

MDBK, Madin-Darby Bovine Kidney cells (ATCC CCL-22, NBL-1), a bovine epithelial cell line derived from the kidney of a 24-35 month old cow. It is highly susceptible to Eimeria bovis and is used for the study of bovine cryptosporidiosis. The cells are characterized by their ability to form a monolayer and are used for the study of various viral and bacterial pathogens, including Vesicular stomatitis Orsay (Indiana), ringbone disease virus, and parainfluenza 3.

Organism Bovine

Tissue Kidney

Synonyms MDBK (NBL-1), NBL-1, Madin-Darby Bovine Kidney cells, Madin-Darby Bovine Kidney epithelial cells

Characteristics

Breed/Subspecies Bos taurus

Age 24-35 months

Gender Male

Morphology Epithelial cells

Growth properties Adherent, monolayer

References and Safety

Citation MDBK (NBL-1) (ATCC CCL-22) Cytion 600396

Biosafety level 1

NCBI_TaxID 9913

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Do not vortex. Transfer the cells to a pre-warmed cell culture flask containing 5 ml of complete medium. Gently mix the cells by pipetting up and down.
2. Seed the cells into a T25 flask containing 25 ml of complete medium. Incubate at 37°C with 5% CO₂ until cells reach 70-80% confluency.
3. Harvest the cells by trypsinization. Seed into a T75 flask containing 75 ml of complete medium. Incubate at 37°C with 5% CO₂ until cells reach 70-80% confluency.
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8. Harvest the cells by trypsinization. Seed into a T75 flask containing 75 ml of complete medium. Incubate at 37°C with 5% CO₂ until cells reach 70-80% confluency.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells by trypsinization. Resuspend in freezing medium. Aliquot into 1 ml vials. Freeze at -80°C.

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C, 196 liquid nitrogen

MDBK (NBL-1) / HLA

Sterility

MDBK (NBL-1) is supplied as a sterile suspension in complete medium. PCR negative. Mycoplasma free.