



Murine hepatitis virus

VR-764™

Description

Murine hepatitis virus strain MHV-A59 is propagated in NCTC clone 1469 [derivative of NCTC 721] cells (ATCC CCL-9.1). This strain was isolated from a pool of liver and spleen suspension from BALB/c mice exhibiting rough coats and hunched positions. The strain has applications in respiratory disease research and infectious disease research.

Strain designation: MHV-A59

Common name: Murine hepatitis virus

Deposited As: Murine hepatitis virus

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies

Murine hepatitis virus

VR-764

and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submerged in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submerged in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: NCTC clone 1469 [derivative of NCTC 721] (ATCC CCL-9.1)

Effects: cell rounding; cell sloughing; CPE; debris generation

Complete medium:

NCTC 135 + 10% Horse Serum (ATCC 30-2040)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results cells should be 24 to 48 hours old and 80% - 90% confluent (not 100% confluent).

Incubation: 18 to 24 hours at 37°C, a 5%CO₂ in air atmosphere is recommended

Murine hepatitis virus

VR-764

Handling Procedures

Mycoplasma contamination: Not detected

Notes

The MHV-A59 was isolated from BALB/c mice in which Moloney murine leukemia had been serially passaged by i.p. injection of homogenates of liver, spleen, thymus and lymph node. It is possible that the preparation still contains murine leukemia virus.

Key Abbreviations: AB, Antibody; BALB/c, Inbred albino strain of mouse; CO₂, Carbon dioxide; CPE, Cytopathic effect; FA, Fluorescent antibody assay; FITC, Fluorescein isothiocyanate conjugate; IgG, Immunoglobulin G; i.p., Intraperitoneal; MHV, Murine hepatitis virus; mL, Milliliter; M (Ms), Mouse; NCTC, National Cancer Tissue Culture (NIH, Bethesda); NCTC 721, Mouse cell line derived from normal liver tissue of a 48-hour-old C3H/AN mouse; NCTC 135, Synthetic media that can be used without protein supplement, Lacking L-Cysteine HCL; NCTC 1469, clone 1469 derived from original mouse liver strain NCTC 721; PBS, Phosphate-buffered saline; TC, Tissue culture; TCID₅₀, Median tissue culture infective dose

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Murine hepatitis virus (ATCC VR-764)

References

References and other information relating to this material are available at www.atcc.org.

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Murine hepatitis virus

VR-764

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Murine hepatitis virus

VR-764

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