ATCC

Product Sheet

Murine hepatitis virus (ATCC® VR-764™)

Please read this FIRST

Storage Temp.
-70°C or colder

Biosafety Level
2

Intended Use

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

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Murine hepatitis virus (ATCC® VR-764™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
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Or contact your local distributor

Description

Strain: MHV-A59
Classification: Nidovirales, Coronaviridae, Coronavirus,Group 2
Common Name: Murine hepatitis virus
Original Source:
Pool of liver and spleen suspension of BALB/c mice exhibiting rough coats and hunched position
Depositor: MJ Collins

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

Propagation

Propagation Host:
NCTC clone 1469 cells (ATCC CCL-9.1)
Recommended Host: NCTC 1469 (ATCC CCL-9.1)

Effect on Host:
Yes, in vitro effects: Cytopathic effects in tissue culture
CPE, rounding and sloughing, attached and floating syncytial debris

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

Growth Conditions
Incubation: 18 to 24 hours at 37°C, a 5%CO_2 in air atmosphere is recommended
Recommendations for Infection: For best results cells should be 24 to 48 hours old and 80% - 90% confluent (not 100% confluent).
Temperature: 37°C

Comments

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.

References

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

Key Abbreviations

AB, antibody
BALB/c, albino: A,b,c strain of inbred mouse
CO_2 (CO2), carbon dioxide
CPE, cytopathic effect
FA, fluorescent antibody
FITC, fluorescein isothiocyanate
IgG, Immunoglobulin type G
i.p., intra-peritoneal
MHV, murine hepatitis virus
mL, milliliter
Ms, mouse
NCTC, media developed by National Cancer Institute tissue culture section
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
$TCID_{50}$(TCID[50]), The Tissue Culture Infectious Dose
50% endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ is the dilution of virus that under the

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conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.

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4/2004 dw

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

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Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.
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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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