ATCC

Product Sheet

Murine hepatitis virus (ATCC® VR-766™)

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-766™)

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
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain: MHV-S Log #3239/17
Classification: Nidovirales, Coronaviridae, Coronavirus,Group 2
Common Name: Murine hepatitis virus
Original Source:
Isolated by i.c. and i.p. passage of viscera of 8 sick CD-1 mice in infant and suckling mice
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 clone 1469 cells (ATCC® CCL-9.1™)
newborn mouse; NCTC clone 1469 cells (ATCC CCL-9.1)

Effect on Host:
Yes, in vitro effects: Cytopathic effects in tissue culture
CPE, apoptosis and slough off in clumps

Medium:
Virus growth medium: DMEM (ATCC® 30-2002) + 10% HS (ATCC® 30-2041)

Growth Conditions
Temperature: 37°C
Incubation: 18 to 48 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 70% - 80% confluent (not 100% confluent).

Comments

Highly infectious in susceptible mouse colonies. Despite high mortality, the clinical signs in infected mice are often non-specific, with weakness or are suggestive of encephalitis with spasticity. Necropsy occasionally reveals small yellow or whitish spots on the liver.

References

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

Key Abbreviations

°C (C), degree Celsius
bp, base pair
CO_2 (CO2), carbon dioxide
CPE, cytopathic effect
DMEM, Dulbecco's Modified Eagle's Medium
HS, horse serum
mL, milliliter
NCBI, National Center for Biotechnology Information
NCTC clone 1469, mouse *(Mus musculus*) liver cells
PCR, polymerase chain reaction
Pen, penicillin
sM, suckling mouse
Strep, streptomycin
TC, tissue culutre
$TCID_{50}$ (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 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

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$TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.

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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

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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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