



Product Sheet

# Murine hepatitis virus (ATCC® VR-766™)

Please read this **FIRST**

Storage Temp.  
**-70°C or colder**

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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](http://www.atcc.org)

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## 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<sub>2</sub> 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](http://www.atcc.org).

## Key Abbreviations

°C (C), degree Celsius

bp, base pair

CO<sub>2</sub> (CO<sub>2</sub>), 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 culture

TCID<sub>50</sub> (TCID<sub>50</sub>), The Tissue Culture Infectious Dose

50% endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> 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.

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
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