



Murine hepatitis virus

VR-766™

Description

Murine hepatitis virus strain MHV-S Log #3239/17 is propagated in NCTC clone 1469 [derivative of NCTC 721] cells (ATCC CCL-9.1). This strain was isolated by intracerebral and intraperitoneal passage of viscera from 8 sick infant and suckling CD-1 mice. This strain is highly infectious in susceptible mouse colonies.

Strain designation: MHV-S Log #3239/17

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 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 submersed 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 submersed 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)

newborn mouse

Effects: apoptosis; cell sloughing; CPE

Complete medium:

DMEM (ATCC 30-2002) + 10% Horse Serum (ATCC 30-2041)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results cells should be 24 to 48 hours old and 70% - 80% confluent (not 100% confluent).

Incubation: 18 to 48 hours at 37°C, a 5% CO₂ in air atmosphere is recommended

Handling Procedures

Mycoplasma contamination: Not detected

Notes

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.

Key Abbreviations: °C, Degrees Celsius; bp, Base pairs; 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 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-766)

References

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

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