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  

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% CO₂ 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  
CO₂ (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  
TCID₅₀(TCID[50]), The Tissue Culture Infectious Dose  
50% endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ 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% (LD₅₀) 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. © ATCC 2004. All rights reserved. ATCC® is a registered trademark of the American Type Culture Collection. 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.

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