

Encephalomyocarditis Virus, MM

Catalog No. NR-19846

Product Description: Cell lysate and supernatant from *Mesocricetus auratus* kidney BHK-21 cells¹ infected with encephalomyocarditis virus (EMCV), MM (also called MM Virus).

Passage History: M6,SM3/C2 (Prior to deposit at BEI/BEI); M# = Number passages in weanling mice; SM# = Number passages in suckling mice; C# = Number passages in BHK-21 cells

Lot²: 60000940

Manufacturing Date: 07JUN2011

TEST	SPECIFICATIONS	RESULTS
Infectivity in BHK-21 Cells¹	Report results	Refractile rounding and sloughing
Sequencing of EMCV-Specific Sequence (792 nucleotides)	Report results	82% identity to EMCV complete genome (GenBank: X87335) ³
Titer by TCID₅₀ Assay in BHK-21 Cells With CPE Readout^{1,4,5}	Report results	2.8 x 10 ¹⁰ TCID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of Test Article nucleic acid	None detected None detected	None detected None detected

¹ATCC® CCL-10™

²Grown in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate (ATCC® 30-2003) and 1% fetal bovine serum (ATCC® 30-2020) for 1 day at 37°C with 5% CO₂

³There is no published sequence data for the MM strain; the EMCV complete genome (GenBank: X87335) is the nearest match in the NCBI database to the sequence of BEI Resources NR-19846.

⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) 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 TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

⁵10 days at 37°C with 5% CO₂

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 08 NOV 2011

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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