

Purified Encephalomyocarditis Virus, MM

Catalog No. NR-46441

Product Description: Encephalomyocarditis virus (EMCV), MM (also called MM Virus) was purified from clarified supernatant from infected hamster (*Mesocricetus auratus*) kidney BHK-21 cells¹ by Iodixanol density gradient centrifugation.²

Passage History: M6,SM3/C3 (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

Lot^{2,3}: 62313052

Manufacturing Date: 07FEB2014

TEST	SPECIFICATIONS	RESULTS
Infectivity in BHK-21 Cells¹	Report results	Refractile rounding and sloughing
Sequencing of EMCV-Specific Sequence Polyprotein gene (761 nucleotides)	Report results Consistent with source virus, NR-19846	83% identity with EMCV complete genome (GenBank: KF836389) ⁴ 100% identity with source virus, NR-19846
Titer by TCID₅₀ Assay in BHK-21 Cells¹ With CPE Readout^{5,6}	Report results	1.6 x 10 ⁹ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁷ , 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

¹BHK-21 cells: ATCC® CCL-10™

²OptiPrep™ (Iodixanol, 5,5'-[(2-hydroxy-1-3 propanediyl)-bis(acetylamino)] bis [N,N'-bis(2,3dihydroxypropyl)-2,4,6-triiodo-1,3-benzenecarboxamide]; Axis-Shield 1114739)

³Grown in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, nonessential amino acids, 2 mM Lglutamine, 1 mM sodium pyruvate, and 1500 mg/L sodium bicarbonate (ATCC® 30-2003) and 1% fetal bovine serum (ATCC® 30-2020) for 2 days at 37°C with 5% CO₂

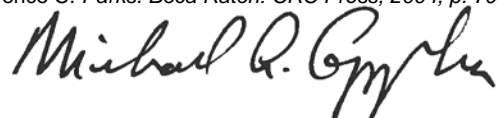
⁴There is no published sequence data for the MM strain; the EMCV complete genome (GenBank: KF836389) is the nearest match in the NCBI database to the sequence of BEI Resources NR-46441.

⁵The 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.

⁶7 days at 37°C with 5% CO₂

⁷Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 27 MAY 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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