

Murine Coronavirus, MHV-1, Plaque Purified

Catalog No. NR-53715

Product Description:

Murine coronavirus [formerly murine hepatitis virus (MHV)], MHV-1 was plaque purified in the early 2000s in murine 17CI-1 cells and then expanded in the same cell line. NR-53715 lot 70038106 was produced by infecting murine 17CI-1 cells (BEI Resources NR-53719) with depositor material and incubated in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 9 days at 37°C with 5% CO₂.

Passage History:

C(4)/C(2) (Prior to deposit at BEI Resources/BEI Resources); C = 17CI-1 cells

Lot: 70038106

Manufacturing Date: 21JAN2021

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in 17CI-1 Cells	Cell rounding and degeneration	Cell rounding and degeneration
Sequencing of Strain-Specific Region (~ 860 nucleotides)	≥ 98% identity with MHV, MHV-1 (GenBank: FJ647223.1)	100% identity with MHV, MHV-1 (GenBank: FJ647223.1)
Titer by TCID₅₀ Assay in 17CI-1 Cells by Cytopathic Effect¹ (7 days at 37°C and 5% CO ₂)	Report results	8.9 × 10 ⁴ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² 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, aerobic	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 extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹The Tissue Culture Infectious Dose 50% (TCID₅₀) 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 TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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24 AUG 2021

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