b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-53718

Recombinant Murine Coronavirus, JHM.SD (Wild Type)

Catalog No. NR-53718

Product Description:

Murine coronavirus [formerly murine hepatitis virus (MHV)], JHM.SD is a recombinant virus derived from MHV, JHM, a naturally occurring neurotropic virus. NR-53718 lot 70038112 was produced by infecting murine fibroblast cells (17Cl-1; BEI Resources NR-53719) in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 1 day at 37°C with 5% CO_2.

Passage History:

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

Lot: 70038112 **Manufacturing Date: 09FEB2021**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in 17Cl-1 Cells	Cell fusing and detachment	Cell fusing and detachment
Sequencing of Strain-Specific Region (~ 860 nucleotides)	≥ 98% identity with MHV, JHM (GenBank: AC_000192.1)	99.9% identity with MHV, JHM (GenBank: AC_000192.1)
Titer by $TCID_{50}$ Assay in 17Cl-1 Cells by Cytopathic Effect[1] (7 days at 37°C and 5% CO_2)	Report results	8.9×10^6 $TCID_{50}$ per mL
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[2]	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

[1]The Tissue Culture Infectious Dose 50% ($TCID_{50}$) endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ 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% (LD_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.

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

/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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