b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-50895

Murine Norovirus 1, Clone CW3

Catalog No. NR-50895

Product Description:

Murine norovirus 1 (MNV-1), clone CW3 was isolated in 2002 from brain tissue of STAT$^{-/-}$ mice infected with MNV-1 by the oral route. It was plaque purified three times prior to deposit to BEI Resources. NR-50895 lot 70053975 was produced by infecting *Mus musculus* macrophage cells (RAW 264.7; ATCC® TIB-71™) with seed material and incubating in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 5 days at 37°C with 5% CO_2.

Passage History:

B2/R2 (Prior to deposit at BEI Resources/BEI Resources); B = Mouse BV2 cells; R = Mouse RAW 264.7 cells

Lot: 70053975 **Manufacturing Date: 17AUG2022**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in RAW264.7 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 780 nucleotides)	≥ 98% identity with MNV-1, Clone CW3 (GenBank: EF014462.1)	99.9% identity with MNV-1, Clone CW3 (GenBank: EF014462.1)
Titer by $TCID_{50}$ Assay in RAW264.7 Cells by Cytopathic Effect[1] (10 days at 37°C with 5% CO_2)	Report results	3.3×10^6 $TCID_{50}$/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.

/Sonia Bjorum Brower/
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Technical 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.

Support Provided by NIAID

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