b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-59459

Influenza A Virus, A/Baltimore/JH-286/2021 (H3N2)

Catalog No. NR-59459

Product Description:

Influenza A virus, A/Baltimore/JH-286/2021 (H3N2) was isolated from a human in Maryland, USA, in 2021. NR-59459 lot 70062477 was produced by infecting Madin-Darby canine kidney-SIAT1 cells (MDCK-SIAT1; Sigma 05071502-1VL) with influenza A virus, A/Baltimore/JH-286/2021 (H3N2) and incubating in Dulbecco's Modified Eagle Medium (ATCC® 30-2002™) supplemented with 0.3% bovine serum albumin and 5 µg/mL N-acetyl trypsin for 4 days at 33°C and 5% CO_2. The cells and supernatant were spin-clarified at 500 × g for 10 minutes at 4°C.

Passage History:

hNEC(1), MDCK-SIAT1(1) / MDCK-SIAT1(1) (Johns Hopkins University/BEI Resources); hNEC = human Nasal Epithelial Cells; MDCK-SIAT1 = Madin-Darby canine kidney-SIAT1 cells

Lot: 70062477 **Manufacturing Date: 03OCT2023**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK-SIAT1 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Hemagglutinin and Neuraminidase Coding Regions		
Hemagglutinin (~ 1740 nucleotides)	Consistent with hemagglutinin type 3 (H3)	Consistent with H3
Neuraminidase (~ 1450 nucleotides)	Consistent with neuraminidase type 2 (N2)	Consistent with N2
Next-Generation Sequencing (NGS) of Complete Genome Using Illumina® MiSeq™ Platform	Consistent with sequence of depositor's material	Consistent with sequence of depositor's material
Titer by $TCID_{50}$ Assay in MDCK-SIAT1 Cells by Hemagglutination Assay[1,2] (7 days at 33°C and 5% CO_2)	Report results	2.8×10^8 $TCID_{50}$/mL
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[3]	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 infectious titer (or infectivity) of a virus preparation.

[2]Assay performed using 0.5% turkey red blood cells

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

/Sonia Bjorum Brower/
Sonia Bjorum Brower 04 MAR 2024
Technical Manager or designee, ATCC Federal Solutions

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

Certificate of Analysis for NR-59459

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.

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898