

## **Certificate of Analysis for NR-59469**

### Influenza B Virus, B/Macha/I1080/2021

### Catalog No. NR-59469

#### **Product Description:**

Influenza B virus, B/Macha/I1080/2021 was isolated from a human in Zambia in 2021. NR-59469 lot 70062501 was produced by infecting Madin-Darby canine kidney-SIAT1 cells (MDCK-SIAT1; Sigma 05071502-1VL) with influenza B virus, B/Macha/I1080/2021 and incubating in Dulbecco's Modified Eagle Medium (ATCC® 30-2002 $^{\text{TM}}$ ) supplemented with 0.3% bovine serum albumin and 5 µg/mL N-acetyl trypsin for 4 days at 33°C and 5% CO<sub>2</sub>. The cell lysate 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: 70062501 Manufacturing Date: 31OCT2023

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 (~ 1850 nucleotides)	Consistent with influenza B virus hemagglutinin (HA)	Consistent with influenza B virus HA
Neuraminidase (~ 1530 nucleotides)	Consistent with influenza B virus hemagglutinin (HA)	Consistent with influenza B virus
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 <sub>50</sub> Assay in MDCK-SIAT1 Cells by		
Hemagglutination Assay <sup>1,2</sup>	Report results	8.9 × 10 <sup>7</sup> TCID <sub>50</sub> /mL
(7 days at 33°C and 5% CO <sub>2</sub> )		
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>3</sup>	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

<sup>&</sup>lt;sup>1</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the infectious titer (or infectivity) of a virus preparation.

/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

<sup>&</sup>lt;sup>2</sup>Assay performed using 0.5% turkey red blood cells

<sup>&</sup>lt;sup>3</sup>Atlas, Ronald M. <u>Handbook of Microbiological Media</u>. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.



# Certificate of Analysis for NR-59469

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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

BEI Resources

www.beiresources.org

Tel: 800-359-7370

Tel: 800-359-7370 Fax: 703-365-2898