

Certificate of Analysis for NR-59461

Influenza A Virus, A/Macha/O1237/2021 (H3N2)

Catalog No. NR-59461

Product Description:

Influenza A virus, A/Macha/O1237/2021 (H3N2) was isolated from a human in Zambia in 2021. NR-59461 lot 70062486 was produced by infecting Madin-Darby canine kidney-SIAT1 cells (MDCK-SIAT1; Sigma 05071502-1VL) with influenza A virus, A/Macha/O1237/2021 and incubating in Dulbecco's Modified Eagle Medium (ATCC® 30-2002 $^{\text{TM}}$) supplemented with 0.3% bovine serum albumin and 5 μ g/mL N-acetyl trypsin for 4 days at 33°C and 5% CO₂. 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: 70062486 Manufacturing Date: 03OCT2023

| TEST | SPECIFICATIONS | RESULTS |
|--|---|--|
| Identification by Infectivity in MDCK-SIAT1 Cells | Cell rounding and detachment | Cell rounding and detachment |
| | Cen rounding and detaoriment | Cen rounding and detaoriment |
| Sequencing of Hemagglutinin and Neuraminidase Coding Regions | | |
| Hemagglutinin (~ 1740 nucleotides) | Consistent with hemagglutinin type 3 (H3) | Consistent with H3 |
| Neuraminidase (~ 1440 nucleotides) | Consistent with neuraminidase type 2 (N2) | Consistent with N2 |
| Next-Generation Sequencing (NGS) of Complete Genome | Consistent with sequence of | Consistent with sequence of |
| Using Illumina® MiSeq™ Platform | depositor's material | depositor's material |
| Titer by TCID ₅₀ Assay in MDCK-SIAT1 Cells by | | |
| Hemagglutination Assay ^{1,2} | Report results | 5.0 × 10 ⁶ TCID ₅₀ /mL |
| (7 days at 33°C and 5% CO ₂) | | |
| 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 |

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 infectious titer (or infectivity) of a virus preparation.

/Sonia Bjorum Brower/

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19 JAN 2024

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²Assay performed using 0.75% guinea pig red blood cells

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



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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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