

Influenza A Virus, A/Georgia/F32551/2012 (H1N1)pdm09

Catalog No. NR-42938

Product Description:

Influenza A virus, A/Georgia/F32551/2012 (H1N1)pdm09 was isolated from a human in Atlanta, Georgia, USA on February 1, 2012. NR-42938 lot 70048114 was produced by infecting Madin-Darby canine kidney (MDCK) (NBL-2) cells (ATCC® CCL-34™) with BEI Resources seed material lot 62854246 and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 1 µg per mL TPCK-trypsin and 0.125% BSA for 4 days at 33°C with 5% CO₂. The cells and supernatant were spin-clarified at 3000 rpm for 10 minutes.

Passage History:

H(1)/C(7) (Contributor/BEI Resources); H = human tracheobronchial epithelial cells; C = MDCK cells

Lot: 70048114

Manufacturing Date: 08NOV2021

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Hemagglutinin and Matrix Coding Regions Hemagglutinin (~ 440 nucleotides) Matrix (~ 970 nucleotides)	≥ 98% identity with A/Georgia/F32551/2012 (H1N1)pdm09 (GenBank: CY148259) ≥ 98% identity with A/Georgia/F32551/2012 (H1N1)pdm09 (GenBank: CY148260)	99.8% identity with A/Georgia/F32551/2012 (H1N1)pdm09 (GenBank: CY148259) 99.9% identity with A/Georgia/F32551/2012 (H1N1)pdm09 (GenBank: CY148260)
Titer by TCID₅₀ Assay in MDCK Cells by CPE^{1,2} (6 days at 33°C and 5% CO ₂)	Report results	1.6 × 10 ⁸ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	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.

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

/Heather Couch/

Heather Couch

06 APR 2022

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.

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.

