

Influenza A Virus, A/Georgia/M5081/2012 (H1N1)

Catalog No. NR-42939

Product Description:

Influenza A virus, A/Georgia/M5081/2012 (H1N1) was isolated from a human in Atlanta, Georgia, USA on February 1, 2012. NR-42939 lot 70053406 was produced by infecting Madin-Darby Canine Kidney cells (MDCK; ATCC® CCL-34™) with BEI Resources seed lot 62795207 and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 0.225% bovine serum albumin and 2 µg per mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin for 3 days at 33°C and 5% CO₂.

Passage History:

H(1)/M(7) (Emory University/BEI Resources); H = human tracheobronchial epithelial cells; M = MDCK cells

Lot: 70053406

Manufacturing Date: 24JUN2022

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 (~ 450 nucleotides) Matrix (~ 970 nucleotides)	≥ 98% identity with A/Georgia/M5081/2012 (H1N1) (GenBank: CY148267.1) ≥ 98% identity with A/Georgia/M5081/2012 (H1N1) (GenBank: CY148172.1)	99.8% identity with A/Georgia/M5081/2012 (H1N1) (GenBank: CY148267.1) 100% identity with A/Georgia/M5081/2012 (H1N1) (GenBank: CY148172.1)
Titer by TCID₅₀ Assay in MDCK Cells by Cytopathic Effect¹ (6 days at 33°C and 5% CO ₂)	Report results	2.8 × 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.

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