

Influenza A Virus, A/Hong Kong/H090-761-V1(0)/2009 (H1N1)pdm09

Catalog No. NR-44345

Product Description:

Influenza A virus, A/Hong Kong/H090-761-V1(0)/2009 (H1N1)pdm09 was isolated from a human in Hong Kong on July 31, 2009. NR-44345 lot 70061554 was produced by infecting Madin-Darby Canine Kidney cells (MDCK; ATCC® CCL-34™) with influenza A virus, A/Hong Kong/H090-761-V1(0)/2009 and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 1 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin for 2 days at 37°C and 5% CO₂.

Passage History:

MDCK(1)/MDCK(4) (Prior to deposit at BEI Resources/BEI Resources)

Lot: 70061554

Manufacturing Date: 20JUL2023

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of HA and NA Coding Regions Hemagglutinin (~ 880 nucleotides)	≥ 98% identity with Kong/H090-761-V1(0)/2009 (H1N1)pdm09 (GenBank: JN256841)	99.9% identity with Kong/H090-761-V1(0)/2009 (H1N1)pdm09 (GenBank: JN256841)
Matrix (~ 920 nucleotides)	Consistent with influenza A virus subtype H1N1	Consistent with influenza A virus subtype H1N1 ¹
Titer by TCID₅₀ Assay in MDCK Cells by CPE² (9 days at 37°C and 5% CO ₂)	Report results	8.9 × 10 ⁶ TCID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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 matrix gene sequence of influenza A/Hong Kong/H090-761-V1(0)/2009 (H1N1)pdm09 is not in the NCBI database; the matrix gene sequence obtained for NR-44345 is identical to more than 80 human H1N1 influenza viruses isolated worldwide in 2009 and 2010, as well as several swine influenza A viruses isolated between 2009 and 2011.

²The 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.

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

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