

Influenza A Virus, A/California/04/2009 (H1N1)pdm09, Cell Isolate (Produced in Cells)

Catalog No. NR-13658

Product Description: Cell lysate and supernatant from Madin-Darby canine kidney cells (MDCK)¹ infected with influenza A virus, A/California/04/2009 (H1N1)pdm09

Passage History: C2/C2 (CDC/BEI); C# = Number passages in MDCK cells

Lot²: 63339776

Manufacturing Date: 17APR2015

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK Cells	Cell rounding and sloughing	Cell rounding and sloughing
Sequencing of Hemagglutinin and Matrix Coding Regions Hemagglutinin gene (444 nucleotides)	Consistent with A/California/04/2009 (H1N1)pdm09	99% identity with A/California/04/2009 (H1N1)pdm09 (GenBank: JF915184)
Matrix gene (924 nucleotides)	Consistent with A/California/04/2009 (H1N1)pdm09	Consistent with A/California/04/2009 (H1N1)pdm09 (GenBank: FJ966085)
Titer by TCID₅₀ Assay^{3,4,5} in MDCK Cells¹	Report results	1.6 × 10 ⁵ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Brucella agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	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

¹MDCK cells: ATCC[®] CCL-34™

²Grown in Eagle's Minimum Essential Medium (ATCC[®] 30-2003) supplemented with 0.125% bovine serum albumin (Invitrogen™ 15260-037), 10mM HEPES (Sigma-Aldrich[®] 83264-100ML-F), and 2 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin (Sigma-Aldrich[®] T1426) for 2 days at 33.5°C and 5% CO₂

³Determined by hemagglutination assay of culture supernatant using 0.5% chicken red blood cells.

⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the infected cells, 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.

⁵5 days at 33.5°C and 5% CO₂

⁶Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 10 SEP 2015

Signature: 

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