

Influenza A Virus, A/New York/18/2009 (H1N1)pdm09 (Tissue Culture Adapted)

Catalog No. NR-15268

Product Description: Cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells¹ infected with influenza A virus, A/New York/18/2009 (H1N1)pdm09

Passage History: E3/E2C4 (CDC/BEI); E# = Number passages in embryonated chicken eggs; C# = Number passages in MDCK cells

Lot²: 58690676

Manufacturing Date: 01AUG2011

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity using MDCK Cells¹ Hemagglutination assay using cell lysate and supernatant from infected MDCK cells and 0.5% chicken red blood cells Cytopathic effect	Positive Report results	Positive Cell rounding and sloughing
Sequencing of Hemagglutinin and Matrix Coding Regions Hemagglutinin (444 nucleotides) Matrix (528 nucleotides)	Consistent with A/New York/18/2009 (H1N1) Consistent with A/New York/18/2009 (H1N1)	99% identity with A/New York/18/2009 (H1N1) (GenBank: GQ232064) 100% identity with A/New York/18/2009 (H1N1) (GenBank: GQ457504)
Titer by ID₅₀ Assay^{3,4,5} in MDCK cells	Report results	1.6 X 10 ⁶ 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 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

¹ATCC® CCL-34™

²Grown in Eagle's Minimum Essential Medium (ATCC® 30-2003) supplemented with 10 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin (Affymetrix® USB® 22725), 10mM 4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES) buffer (Sigma-Aldrich® 83264) and 0.125% bovine serum albumin (Gibco® 15260-037) for 5 days at 35°C with 5% CO₂

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

⁴The Infectious Dose 50% (CEID₅₀) is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the inoculated host, 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 ID₅₀ provides a measure of the infectious titer (or infectivity) of a virus preparation.

⁵6 days at 35°C with 5% CO₂

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

Certificate of Analysis for NR-15268

Date: 29 MAY 2012

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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