

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

**Catalog No. NR-44345**

**Product Description:** Cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells<sup>1</sup> infected with influenza A virus, A/Hong Kong/H090-761-V1(0)/2009 (H1N1)pdm09

**Lot<sup>2</sup>: 62926585**

**Manufacturing Date: 24NOV2014**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in MDCK Cells<sup>1</sup></b>	Cell rounding and detachment	Cell rounding and detachment
<b>Sequencing of Hemagglutinin and Matrix Coding Regions</b> Hemagglutinin (887 nucleotides)	Consistent with A/Hong Kong/H090-761-V1(0)/2009 (H1N1)pdm09	99% identity with A/Hong Kong/H090-761-V1(0)/2009 (H1N1)pdm09 (GenBank: JN256841)
Matrix (908 nucleotides)	Report results	Consistent with influenza A <sup>3</sup>
<b>Titer by TCID<sub>50</sub> Assay<sup>4,5</sup> in MDCK cells</b>	Report results	1.6 × 10 <sup>7</sup> TCID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>6</sup> , 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 Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub>	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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>MDCK; ATCC<sup>®</sup> CCL-34™

<sup>2</sup>Grown in Eagle's Minimum Essential Medium (ATCC<sup>®</sup> 30-2003™) supplemented with 1.0 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin for 3 days at 37°C and 5% CO<sub>2</sub>

<sup>3</sup>The 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.

<sup>4</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the infectious titer (or infectivity) of a virus preparation.

<sup>5</sup>3 days at 37°C and 5% CO<sub>2</sub>

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

**Date:** 19 FEB 2015

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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