

**Influenza A Virus, A/Wisconsin/629-D02312/2009 (H1N1)pdm09, Cell Isolate (Produced in Cells)**

**Catalog No. NR-19809**

**Product Description:** Cell lysate and supernatant from primary Madin-Darby Canine Kidney (MDCK) cells<sup>1</sup> infected with influenza A virus, A/Wisconsin/629-D02312/2009 (H1N1)pdm09.

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

**Lot<sup>2</sup>: 59525402**

**Manufacturing Date: 21DEC2010**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in MDCK cells<sup>1</sup></b>	Report results	Refractile cell rounding and sloughing
<b>Identification by Direct Fluorescent Antibody Assay<sup>3</sup></b>	Report results	Fluorescence observed
<b>Identification by Hemagglutinin Gene Sequencing (444 nt)</b>	Consistent with A/Wisconsin/629-D02312/2009 (H1N1)pdm09 (GenBank: CY046195)	Identical to A/Wisconsin/629-D02312/2009 (H1N1)pdm09 (GenBank: CY046195)
<b>Titer by TCID<sub>50</sub> Assay<sup>4,5</sup> in MDCK Cells<sup>1</sup></b>	Report results	2.8 X 10 <sup>6</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> , 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
<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® CCL-34

<sup>2</sup>Grown in Dulbecco's Modified Eagle Medium (ATCC® 30-2002™) supplemented with 0.1% BSA (Invitrogen™ 15260-037) and 0.2 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin (USB 22725) for 5 days at 35°C and 5% CO<sub>2</sub>

<sup>3</sup>Using Mouse Anti-Influenza A FITC-labeled Monoclonal Antibody (Millipore 5017)

<sup>4</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) 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% (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>7 days at 35°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:** 04 FEB 2015

**Signature:** *Michael R. Gypke*

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

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