b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-19807

Influenza A Virus, A/Wisconsin/629-D00244/2009 (H1N1)pdm09, Cell Isolate (Produced in Cells)

Catalog No. NR-19807

Product Description: Cell lysate and supernatant from primary Madin-Darby Canine Kidney (MDCK) cells[1] infected with influenza A virus, A/Wisconsin/629-D00244/2009 (H1N1)pdm09.

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

Lot[2]: 59525400 **Manufacturing Date: 04APR2011**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK cells[1]	Report results	Refractile cell rounding and sloughing
Identification by Hemagglutinin Gene Sequencing (443 nt)	Consistent with A/Wisconsin/629-D00244/2009 (H1N1)pdm09 (GenBank: CY046851)	Identical to A/Wisconsin/629-D00244/2009 (H1N1)pdm09 (GenBank: CY046851)
Titer by $TCID_{50}$ Assay[3,4] in MDCK Cells[1]	Report results	2.8 X 10^7 $TCID_{50}$ per mL
Sterility (21-day incubation)		
Harpo's HTYE broth[5], 37°C and 26°C, aerobic	No growth	No growth
Trypticase soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Blood agar, 37°C, aerobic	No growth	No growth
Blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C and 5% CO_2, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

[1]MDCK; ATCC® CCL-34

[2]Grown in Dulbecco's Modified Eagle Medium (ATCC® 30-2002™) supplemented with 0.1% BSA (Invitrogen™ 15260-037) and 3.8 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin (USB 22725) for 3 days at 35°C and 5% CO_2.

[3]The Tissue Culture Infectious Dose 50% ($TCID_{50}$) 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_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the infectious titer (or infectivity) of a virus preparation.

[4]4 days at 35°C and 5% CO_2

[5]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 Q. Gyrla

Title: Technical Manager, BEI Authentication or designee

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