b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-42940

Influenza A Virus, A/Georgia/T51700/2012 (H1N1)pdm09

Catalog No. NR-42940

Product Description: Cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells[1] infected with influenza A virus, A/Georgia/T51700/2012 (H1N1)pdm09

Passage History: H1/C6 (Emory University/BEI Resources); H# = Number passages in human tracheobronchial epithelial cells; C# = Number passages in MDCK cells

Lot[2]: 62795204 **Manufacturing Date: 10OCT2014**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK Cells[1]	Report results	Cell sloughing and rounding
Sequencing of Hemagglutinin and Matrix Coding Regions		
Hemagglutinin (447 nucleotides)	Consistent with A/Georgia/ T51700/2012 (H1N1)pdm09	99% identity with A/Georgia/ T51700/2012 (H1N1)pdm09 (GenBank: CY148251)
Matrix (810 nucleotides)	Consistent with A/Georgia/ T51700/2012 (H1N1)pdm09	100% identity with A/Georgia/ T51700/2012 (H1N1)pdm09 (GenBank: CY148252)
Titer by $TCID_{50}$ Assay[3,4] in MDCK cells[1]	Report results	2.8×10^8 $TCID_{50}$ 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	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 MDCK cells Eagle's Minimal Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate, and 1500 mg per mL sodium bicarbonate (ATCC® 30-2003) supplemented with 0.225% bovine serum albumin (Invitrogen™ 15260-037) and 2.0 µg per mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin (Sigma-Aldrich® T1426) for 1 day at 33°C and 5% CO_2

[3]The Tissue Culture Infectious Dose 50% ($TCID_{50}$) endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ 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_{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]7 days at 33°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: 01 MAY 2015 **Signature:** Michael R. Gyrla

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

Support Provided by NIAID

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898