b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-13663

Influenza A Virus, A/California/07/2009 (H1N1)pdm09, Egg Isolate (Produced in Eggs)

Catalog No. NR-13663

Product Description:

Influenza A virus, A/California/07/2009 (H1N1)pdm09 was isolated from a 54-year-old man in California on April 9, 2009. NR-13663 lot 70039698 was produced in the allantoic cavity of specific pathogen free (SPF) embryonated chicken eggs (10- to 11-day-old; Charles River, Norwich, Connecticut, USA) infected with the seed material for 2 days at 35°C in a humidified chamber.

Passage History:

E(3)/E(2) (Centers for Disease Control and Prevention/BEI Resources); E = SPF embryonated chicken eggs

Lot: 70039698 **Manufacturing Date: 19NOV2020**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity Using Embryonated Chicken Eggs		
Hemagglutination activity using allantoic fluid from infected eggs and 0.5% chicken red blood cells	Positive	Positive
Sequencing of Hemagglutinin and Matrix Coding Regions		
Hemagglutinin (~ 440 nucleotides)	≥ 98% identity with A/California/07/2009 (H1N1)pdm09 (GenBank: CY121680.1)	100% identity with A/California/07/2009 (H1N1)pdm09 (GenBank: CY121680.1)
Matrix (~ 930 nucleotides)	≥ 98% identity with A/California/07/2009 (H1N1)pdm09 (GenBank: CY121681.1)	100% identity with A/California/07/2009 (H1N1)pdm09 (GenBank: CY121681.1)
Titer by $CEID_{50}$ Assay in Embryonated Chicken Eggs[1] (2 days at 35°C in a humidified chamber)	Report results	2.8×10^8 $CEID_{50}$ per mL
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[2]	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
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, 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]The Chicken Embryo Infectious Dose 50% ($CEID_{50}$) is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the inoculated embryonated chicken eggs, 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 $CEID_{50}$ provides a measure of the infectious titer (or infectivity) of a virus preparation.

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

/Heather Couch/
Heather Couch 17 MAR 2021
Program Manager or designee, ATCC Federal Solutions

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.

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