b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-12282

Influenza A Virus, A/Brisbane/59/2007 (H1N1)

Catalog No. NR-12282

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Product Description:

Influenza A virus, A/Brisbane/59/2007 (H1N1) was originally isolated from a 47-year-old female in Queensland, Australia on July 1, 2007. NR-12282 lot 70041674 was produced in the allantoic cavity of specific pathogen free (SPF) embryonated chicken eggs (9- to 11-day-old; Charles River, Norwich, Connecticut, USA) infected with BEI Resources lot 58550262 material for 2 days at 35°C in a humidified chamber, which was spin-clarified at harvest.

Lot: 70041674 **Manufacturing Date: 03FEB2021**

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/Brisbane/59/2007 (H1N1) (GenBank: CY163640.1)	100% identity with A/Brisbane/59/2007 (H1N1) (GenBank: CY163640.1)
Matrix (~ 940 nucleotides)	≥ 98% identity with A/Brisbane/59/2007 (H1N1) (GenBank: CY163633.1)	99.9% identity with A/Brisbane/59/2007 (H1N1) (GenBank: CY163633.1)
Titer by $CEID_{50}$ Assay in Embryonated Chicken Eggs[1] (2 days at 35°C in a humidified chamber)	Report results	1.6×10^{10} $CEID_{50}$ 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.

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Program Manager or designee, ATCC Federal Solutions

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