b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-59472

Influenza A Virus, A/Alaska/232/2015 (H3N2)

Catalog No. NR-59472

Product Description:

Influenza A virus, A/Alaska/232/2015 (H3N2) was isolated on September 9, 2015, from a human in Alaska, USA. NR-59472 was produced in the allantoic cavity of specific pathogen free (SPF) embryonated chicken eggs (10- to 11- day-old; avsbio, Norwich, Connecticut, USA) infected with the deposited material for 3 days at 33.5°C in a humidified chamber.

Lot: 70071969 **Manufacturing Date: 18OCT2024**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity Using Embryonated Chicken Eggs		
Hemagglutination activity using allantoic fluid from infected eggs and 0.5% turkey red blood cells	Positive	Positive
Sequencing of Hemagglutinin and Matrix Coding Regions		
Hemagglutinin (~ 690 nucleotides)	≥ 98% sequence identity with A/Alaska/232/2015 (H3N2) (GenBank: KY116959)	99.9% sequence identity with A/Alaska/232/2015 (H3N2) (GenBank: KY116959)
Matrix (~ 940 nucleotides)	≥ 98% sequence identity with A/Alaska/232/2015 (H3N2) (GenBank: KY116962)	100% sequence identity with A/Alaska/232/2015 (H3N2) (GenBank: KY116962)
Titer by $CEID_{50}$ Assay in Embryonated Chicken Eggs[1]		
3 days at 33.5°C in a humidified chamber	Report results	1.6×10^8 $CEID_{50}$/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.

/Sonia Bjorum Brower/
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