

Influenza A Virus, A/Perth/16/2009 (HA, NA) x A/Puerto Rico/8/1934 (H3N2), NIB-64

Catalog No. NR-41803

(Derived from CDC ID No. 2010702415)

Product Description:

Influenza A virus, A/Perth/16/2009 (H3N2) was isolated from a human in Australia on April 7, 2009. A classical reassortant was derived from A/Perth/16/2009 (H3N2) and A/Puerto Rico/8/1934 (H1N1) viruses. The HA and NA proteins are from A/Perth/16/2009 (H3N2). NR-41803 lot 70056200 is derived from CDC ID No. 2010702415 and 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 BEI Resources seed lot 61361423 for 2 days at 34°C in a humidified chamber.

Lot: 70056200

Manufacturing Date: 16DEC2022

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) Matrix (~ 940 nucleotides)	≥ 98% identity with A/Perth/16/2009 (H3N2) (GenBank: CY081428) ≥ 98% identity with A/Puerto Rico/8/1934 (H1N1) (GenBank: CY105897)	99.9% identity with A/Perth/16/2009 (H3N2) (GenBank: CY081428) 99.8% identity with A/Puerto Rico/8/1934 (H1N1) (GenBank: CY105897)
Neuraminidase (~ 380 nucleotides)	≥ 98% identity with A/Perth/16/2009 (H3N2) (GenBank: CY081429)	100% identity with A/Perth/16/2009 (H3N2) (GenBank: CY081429)
Titer by CEID₅₀ Assay in Embryonated Chicken Eggs¹ (2 days at 34°C in a humidified chamber)	Report results	1.8 × 10 ⁷ CEID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹The Chicken Embryo Infectious Dose 50% (CEID₅₀) 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% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the CEID₅₀ provides a measure of the infectious titer (or infectivity) of a virus preparation.

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

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