

Influenza A Virus, A/Puerto Rico/8-MC/1934 (H1N1)

Catalog No. NR-29022

Product Description:

Influenza A virus, A/Puerto Rico/8-MC/1934 (H1N1) is a mouse-adapted strain of influenza A virus, A/Puerto Rico/8/1934 (H1N1) that was produced in Madin-Darby canine kidney (MDCK) cells using reverse genetics. This virus was originally deposited to BEI Resources as influenza A virus, A/Puerto Rico/8-34-MC/2010 (H1N1), but subsequently named A/Puerto Rico/8-MC/1934 (H1N1) by the NIAID Influenza Genome Sequencing Consortium. NR-29022 lot 70051831 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 the deposited material for 2 days at 35°C in a humidified chamber.

Lot: 70051831

Manufacturing Date: 28APR2022

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 (~ 960 nucleotides) Matrix (~ 900 nucleotides)	≥ 98% identity with A/Puerto Rico/8-MC/1934 (H1N1) (GenBank: CY083950) ≥ 98% identity with A/Puerto Rico/8-MC/1934 (H1N1) (GenBank: CY083951)	99.8% identity with A/Puerto Rico/8-MC/1934 (H1N1) (GenBank: CY083950) 100% identity with A/Puerto Rico/8-MC/1934 (H1N1) (GenBank: CY083951)
Titer by CEID₅₀ Assay in Embryonated Chicken Eggs¹ (2 days at 35°C in a humidified chamber)	Report results	4.0 × 10 ¹⁰ CEID ₅₀ per 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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08 AUG 2022

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