

Influenza A Virus, A/California/04/2009 (H1N1)pdm09, Cell Isolate (Produced in Eggs)

Catalog No. NR-13659

Product Description:

Influenza A virus, A/California/04/2009 (H1N1)pdm09 was isolated from a 10-year-old boy with asthma in San Diego County, California, on April 1, 2009. NR-13659 lot 70053595 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 seed material (BEI Resources lot 58632371) for 2 days at 33.5°C in a humidified chamber.

Lot: 70053595

Manufacturing Date: 13JUL2022

| 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 (~ 900 nucleotides) Matrix (~ 950 nucleotides) | ≥ 98% identity with A/California/04/2009 (H1N1)pdm09 (GenBank: JF915184.1) ≥ 98% identity with A/California/04/2009 (H1N1)pdm09 (GenBank: FJ969513.1) | 99.9% identity with A/California/04/2009 (H1N1)pdm09 (GenBank: JF915184.1) 99.7% identity with A/California/04/2009 (H1N1)pdm09 (GenBank: FJ969513.1) |
| Titer by CEID₅₀ Assay in Embryonated Chicken Eggs¹ (2 days at 33.5°C in a humidified chamber) | Report results | 1.6 × 10 ⁷ 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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