

Influenza A Virus, A/California/04/2009 (H1N1)pdm09, Cell Isolate (Produced in Cells)
Catalog No. NR-13658
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-13658 was produced by infecting Madin-Darby Canine Kidney cells (MDCK; ATCC® CCL-34™) with BEI Resources seed lot 58632370 and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 0.125% bovine serum albumin, 10 mM HEPES and 1 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin for 3 days at 33.5°C and 5% CO₂ to produce this lot.

Passage History:

C(2)/C(3) (Prior to deposit at BEI Resources/BEI Resources); C = MDCK cells

Lot: 70080987
Manufacturing Date: 02FEB2026

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Hemagglutinin and Matrix Coding Regions Hemagglutinin (~ 390 nucleotides) Matrix (~ 880 nucleotides)	≥ 98% sequence identity with A/California/ 04/2009 (H1N1)pdm09 (GenBank: JF915184) ≥ 98% sequence identity with A/California/ 04/2009 (H1N1)pdm09 (GenBank: FJ966085)	100% sequence identity with A/California/ 04/2009 (H1N1)pdm09 (GenBank: JF915184) 100% sequence identity with A/California/ 04/2009 (H1N1)pdm09 (GenBank: FJ966085)
Titer by TCID₅₀ Assay in MDCK Cells with Immunofluorescent Assay (IFA)^{1,2,3} (5 days at 33.5°C and 5% CO ₂)	Report results	1.1 × 10 ⁶ TCID ₅₀ /mL
Sterility test (BacT/ALERT 3D) iAST bottle (aerobic) at 32.5°C, 14-day incubation iNST bottle (anaerobic) at 32.5°C, 14-day incubation	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 Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, 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 TCID₅₀ provides a measure of the infectious titer (or infectivity) of a virus preparation.

²Titer was determined by immunofluorescent assay (IFA) and completed in duplicate (5.0 × 10⁵ TCID₅₀/mL and 1.6 × 10⁶ TCID₅₀/mL). The average of the two values is reported.

³Using anti-influenza monoclonal antibody (BEI Resources NR-42021) and goat anti-mouse IgG FITC (Millipore® AP124F)

/Sonia Bjorum Brower/

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08 MAY 2026

Technical Manager or designee, ATCC Federal Solutions

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