

Influenza A Virus, A/Georgia/M5081/2012 (H1N1)

Catalog No. NR-42939

Product Description: Cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells¹ infected with influenza A virus, A/Georgia/M5081/2012 (H1N1)

Passage History: H1/C6 (Contributor/BEI); H# = Number passages in human tracheobronchial epithelial cells; C# = Number passages in MDCK cells

Lot²: 62795203

Manufacturing Date: 13OCT2014

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK Cells¹	Report results	Cell sloughing and rounding
Sequencing of Hemagglutinin and Matrix Coding Regions Hemagglutinin (388 nucleotides)	Consistent with A/Georgia/M5081/2012 (H1N1)	100% identity with A/Georgia/M5081/2012 (H1N1) (GenBank: CY148267)
Matrix (919 nucleotides)	Consistent with A/Georgia/M5081/2012 (H1N1)	99% identity with A/Georgia/M5081/2012 (H1N1) (GenBank: CY148172)
Titer by TCID₅₀ Assay^{3,4} in MDCK cells¹	Report results	1.6 × 10 ⁷ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	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

¹MDCK; ATCC[®] CCL-34[™]

²Grown in MDCK cells Eagle's Minimal Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate, and 1500 mg per mL sodium bicarbonate (ATCC[®] 30-2003) supplemented with 0.225% bovine serum albumin (Invitrogen[™] 15260-037) and 2.0 µg per mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin (Sigma-Aldrich[®] T1426) for 3 days at 33°C and 5% CO₂

³The 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.

⁴7 days at 33°C and 5% CO₂

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Certificate of Analysis for NR-42939

Date: 03 MAR 2015

Signature: 

Title: Technical Manager, BEI Authentication or designee

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