

Purified Influenza A Virus, A/Brisbane/59/2007 (H1N1) (Tissue Culture Adapted)
Catalog No. NR-48598

Product Description: Influenza A virus, A/Brisbane/59/2007 (H1N1) (tissue culture adapted) purified from infected Madin-Darby canine kidney (MDCK) cells¹ by high speed centrifugation of clarified supernatant

Passage History: E2/E1/E2/E1C10 (Submission laboratory/CDC/Baylor College of Medicine/BEI Resources; E# = Number passages in eggs; C# = Number passages in MDCK cells)

Lot^{2,3}: 62449041
Manufacturing Date: 20APR2015

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK Cells¹	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species- and Strain-Specific Regions Hemagglutinin gene (448 nucleotides) Matrix gene (951 nucleotides)	Consistent with A/Brisbane/59/2007 (H1N1) Consistent with A/Brisbane/59/2007 (H1N1)	100% identity with A/Brisbane/59/2007 (H1N1) (GenBank: CY163640) 99% identity with A/Brisbane/59/2007 (H1N1) (GenBank: CY163633)
Titer by TCID₅₀ Assay^{4,5} in MDCK Cells¹ with Indirect Fluorescent Antibody (IFA) Readout⁶	Report results	1.6 × 10 ⁸ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁷ , 37°C and 26°C, aerobic 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 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 cells: ATCC® CCL-34™

²Prepared by growth of influenza A virus, A/Brisbane/59/2007 (H1N1) (tissue culture adapted) (NR-31657, lot 62263122) in MDCK¹ cells followed by virus purification by high speed centrifugation of clarified supernatant

³Grown in Minimum Essential Medium containing Earle's salts (ATCC 30-2003) supplemented with 2 µg/mL TPCK-treated trypsin and 0.125% Bovine Serum Albumin (Gibco 15260-037) for 2 days at 35°C with 5% CO₂.

⁴The 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 titer (or infectivity) of a virus preparation.

⁵6 days at 35°C with 5% CO₂
⁶Using influenza A antibody FITC reagent (Millipore 5017)

⁷Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Certificate of Analysis for NR-48598

Date: 21 JUL 2015

Signature: 

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