

Influenza A Virus, A/Brisbane/59/2007 (H1N1) (Tissue Culture Adapted)

Catalog No. NR-31657

Derived from BEIR NR-12282

Product Description: Cell lysate and supernatant from Madin-Darby canine kidney (MDCK) cells¹ infected with influenza A virus, A/Brisbane/59/2007 (H1N1) (tissue culture adapted)

Lot²: 62263122

Manufacturing Date: 24JUL2014

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity Using MDCK Cells¹ Hemagglutination assay using cell lysate and supernatant from infected MDCK cells and 0.5% chicken red blood cells Cytopathic effect	Positive Report results	Positive Cell rounding and detachment
Sequencing of Species- and Strain-Specific Regions Hemagglutinin gene (442 nucleotides) Matrix gene (848 nucleotides)	Consistent with A/Brisbane/59/2007 (H1N1) Consistent with A/Brisbane/59/2007 (H1N1)	99% identity with A/Brisbane/59/2007 (H1N1) (GenBank: CY163864) 99% identity with A/Brisbane/59/2007 (H1N1) (GenBank: CY163865)
Titer by TCID₅₀ Assay^{3,4,5} in MDCK Cells¹	Report results	2.8 × 10 ⁸ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 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™

²Grown in Minimum Essential Medium containing Earle's salts (ATCC 30-2003) supplemented with 2 µg/mL Trypsin, TPCK-treated (USB 22725), and 0.125% Bovine Serum Albumin (Gibco 15260-037) for 5 days at 35°C with 5% CO₂.

³Determined by hemagglutination assay of culture supernatant using 0.5% chicken red blood cells.

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

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 13 OCT 2014

Signature: *Michael R. Gynther*

Title: Technical Manager, BEI Authentication or designee

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