

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: 60235893

Manufacturing Date: 02SEP2011

| 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 (436 nucleotides) Matrix gene (979 nucleotides) | Consistent with A/Brisbane/59/2007 (H1N1) (GenBank: CY058487) Consistent with A/Brisbane/59/2007 (H1N1) (GenBank: CY058490) | 99% identity with A/Brisbane/59/2007 (H1N1) (GenBank: CY058487) 99% identity with A/Brisbane/59/2007 (H1N1) (GenBank: CY058490) |
| Titer by TCID₅₀ Assay^{3,4,5} in MDCK Cells¹ | Report results | 2.1 × 10 ⁵ 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 supplemented with 0.2 µg/mL Trypsin, TPCK-treated, and 0.125% Bovine Serum Albumin for 2 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.

⁵2 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: 06 FEB 2014

Signature:

Dorothy C. Young

Title:

Technical Manager, BEI Authentication or designee

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