

Kilbourne F68: A/WSN/1933 (H1N1), Wild Type (ts+) Clone

Catalog No. NR-3688

Product Description: Cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells¹ infected with influenza A virus, A/WSN/1933 (H1N1), wild type (ts+) clone

Lot^{2,3}: 64103051

Manufacturing Date: 17JUN2016

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK Cells¹	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Hemagglutinin and Matrix Coding Regions Hemagglutinin (442 nucleotides) Matrix (807 nucleotides)	Consistent with A/WSN/1933 (H1N1) (GenBank: CY034132) Consistent with A/WSN/1933 (H1N1) (GenBank: CY034133)	100% identity with A/WSN/1933 (H1N1) (GenBank: CY034132) 99% identity with A/WSN/1933 (H1N1) (GenBank: CY034133)
Titer by TCID₅₀ Assay^{3,4,5} in MDCK Cells¹	Report results	2.8 × 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™

²Derived from NIAID Catalog No. V-331-OTC451

³Grown in Minimum Essential Medium supplemented with 0.125% Bovine Serum Albumin and 1 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin for 2 days at 37°C with 5% CO₂.

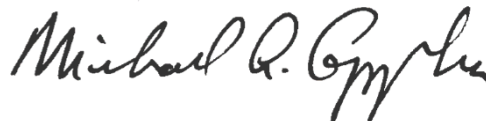
⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half 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.

⁵7 days at 37°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: 02 SEP 2016

Signature:



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