

**Kilbourne F88: A/Nanchang/933/1995 (HA, NA) x A/Puerto Rico/8/1934 (H3N2),
Reassortant X-125**

Catalog No. NR-3692

Product Description: Cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells¹ infected with reassortant influenza A virus, A/Nanchang/933/1995 (HA, NA) x A/Puerto Rico/8/1934 (H3N2)

Lot^{2,3}: 60341199

Manufacturing Date: 07MAR2012

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MDCK Cells¹	Cell rounding and sloughing	Cell rounding and sloughing
Sequencing of Hemagglutinin and Matrix Coding Regions Hemagglutinin (687 nucleotides) Matrix (848 nucleotides)	Consistent with A/Nanchang/933/1995 (H3N2) Consistent with A/Puerto Rico/8/1934 (H1N1)	99% Identity with A/Nanchang/933/1995 (H3N2) (Gen Bank: AF008725) 100% identity with A/Puerto Rico/8/1934 (H1N1) (GenBank: CY033578)
Titer by TCID₅₀ Assay^{4,5} in MDCK Cells¹	Report results	8.9 × 10 ⁶ 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 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 cells (ATCC® CCL-34™)

²Derived from NIAID Catalog No. V-331-0TC471

³Grown in Dulbecco's Modified Eagle Medium (ATCC® 30-2002™) supplemented with 0.125% BSA (Invitrogen™ 15260-037) and 0.2 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin (USB 22725) for 2 days at 35°C and 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 35°C and 5% CO₂

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

Date: 01 NOV 2012

Signature:

Dorothy C. Young

Title:

Technical Manager, BEI Authentication or designee

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