

**Kilbourne F125: A/Victoria/3/1975 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H3N7), Reassortant X-48R**

**Catalog No. NR-3685**

**Product Description:** Cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells<sup>1</sup> infected with reassortant influenza A virus, A/Victoria/3/1975 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H3N7)

**Lot<sup>2,3</sup>: 63511774**

**Manufacturing Date: 13JUL2015**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in MDCK cells<sup>1</sup></b> Hemagglutination activity using allantoic fluid from infected eggs and 0.5% chicken red blood cells	Positive	Positive
<b>Sequencing of Hemagglutinin, Matrix, and Neuraminidase Coding Regions</b> Hemagglutinin (692 nucleotides)  Matrix (864 nucleotides)  Neuraminidase (489 nucleotides)	Consistent with A/Victoria/3/1975 (H3N2)  Consistent with A/equine/Prague/1/1956 (H7N7)  Consistent with A/equine/Prague/1/1956 (H7N7)	100% identity with A/Victoria/3/1975 (H3N2) (GenBank: CY121197)  99% identity with A/equine/Prague/1/1956 (H7N7) (GenBank: CY096908)  100% identity with A/equine/Prague/1/1956 (H7N7) (GenBank: CY096909)
<b>Titer by TCID<sub>50</sub> Assay<sup>4,5</sup> in MDCK Cells<sup>1</sup></b>	Report results	5.0 × 10 <sup>5</sup> TCID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>6</sup> , 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 <sub>2</sub>	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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>MDCK; ATCC® CCL-34™

<sup>2</sup>Derived from NIAID Catalog No. V-331-0TC445

<sup>3</sup>Grown in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 0.125% BSA (Invitrogen™ 15260-037) and 2 µg per mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin (Sigma T1426) for 3 days at 37°C and 5% CO<sub>2</sub>

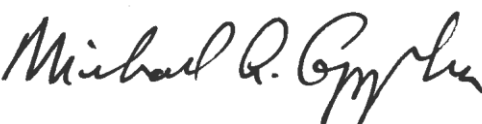
<sup>4</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the infected cells, just as a Lethal Dose 50% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the infectious titer (or infectivity) of a virus preparation.

<sup>5</sup>10 days at 37°C and 5% CO<sub>2</sub>

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

## Certificate of Analysis for NR-3685

**Date:** 09 DEC 2015

**Signature:** 

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