

**Kilbourne F21: A/Wisconsin/3523/1988 (H1N1)**

**Catalog No. NR-3593**

**Product Description:** Pooled allantoic fluid from specific-pathogen free (SPF) embryonated chicken eggs<sup>1</sup> infected with wild type influenza A virus, A/Wisconsin/3523/1988 (H1N1) (Kilbourne F21).

**Lot<sup>2,3</sup>: 59628171**

**Manufacturing Date: 28JAN2011**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity Using Embryonated Chicken Eggs<sup>1</sup></b> Hemagglutination activity using allantoic fluid from infected eggs and 0.5% chicken red blood cells	Positive	Positive
<b>Sequencing of Species- and Strain-Specific Regions</b> Hemagglutinin (~ 448 nucleotides)  Matrix gene (~ 893 nucleotides)	Consistent with influenza A virus (H1N1) Consistent with A/Wisconsin/3523/1988 (GenBank: M63521)	Consistent with influenza A virus (H1N1) <sup>4</sup> 99% identity with A/Wisconsin/3523/1988 (GenBank: M63521)
<b>Titer by CEID<sub>50</sub> Assay<sup>5,6</sup> in Embryonated Chicken Eggs<sup>1</sup></b>	Report results	8.9 X 10 <sup>6</sup> CEID <sub>50</sub> /mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>7</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>10 to 11-day-old SPF Fertile Chicken Eggs acquired from B&E Eggs, York Springs, Pennsylvania

<sup>2</sup>Derived from NIAID Catalog No. V-331-0E5439

<sup>3</sup>Grown in the allantoic cavity of embryonated chicken eggs<sup>1</sup> for 2 days at 35°C in a humidified chamber

<sup>4</sup>The nucleotide sequence obtained had 96-99% identity with numerous influenza A virus H1 HA sequences in the NCBI database; however, the HA gene sequence of A/Wisconsin/3523/1988 has not been deposited.

<sup>5</sup>The Chicken Embryo Infectious Dose 50% (CEID<sub>50</sub>) is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the inoculated embryonated chicken eggs, 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 CEID<sub>50</sub> provides a measure of the infectious titer (or infectivity) of a virus preparation.

<sup>6</sup>2 days at 35°C in a humidified chamber

<sup>7</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 24 MAY 2011

**Signature:**



**Title:**

Technical Manager, BEI Authentication or designee

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