

**Influenza A Virus, A/Hong Kong/1/1968-2 Mouse-Adapted 21-2 (H3N2)**

**Catalog No. NR-28634**

**Product Description:** Pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs<sup>1</sup> infected with influenza A virus, A/Hong Kong/1/1968-2 mouse-adapted 21-2 (H3N2)

**Passage History:** MKX/MK2E2/E1M2E2M1E2ML21M2E2/E1 (Isolating laboratory/WHO World Influenza Centre, London/Laboratory CDC, Health Canada, Ottawa/BEI); E# = Number passages in eggs; M# = Number passages in MDCK cells; MK# = Number passages in monkey kidney cells; ML# = Number passages in mouse lung; X = unknown

**Lot<sup>2</sup>: 62432872**

**Manufacturing Date: 12MAR2014**

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 Hemagglutinin, Matrix and Neuraminidase Coding Regions<sup>3</sup></b> Hemagglutinin (694 nucleotides)  Matrix (775 nucleotides)  Neuraminidase (459 nucleotides)	Consistent with A/Hong Kong/1-2-MA21-2/1968 (H3N2)  Consistent with A/Hong Kong/1-2-MA21-2/1968 (H3N2)  Consistent with A/Hong Kong/1-2-MA21-2/1968 (H3N2)	100% identity with A/Hong Kong/1-2-MA21-2/1968 (H3N2) (GenBank: CY033105)  99% identity with A/Hong Kong/1-2-MA21-2/1968 (H3N2) (GenBank: CY033106)  99% identity with A/Hong Kong/1-2-MA21-2/1968 (H3N2) (GenBank: CY033107)
<b>Strain Identification by Sequencing of Neuraminidase Coding Region<sup>4</sup></b>	Identity confirmed	Identity confirmed
<b>Titer by CEID<sub>50</sub> Assay<sup>5,6</sup> in Embryonated Chicken Eggs<sup>1</sup></b>	Report results	8.9 × 10 <sup>7</sup> CEID <sub>50</sub> per 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>9- to10-day-old SPF Embryonated Chicken Eggs acquired from B&E Eggs, York Springs, Pennsylvania

<sup>2</sup>Grown in the allantoic cavity of embryonated chicken eggs<sup>1</sup> for 2 days at 35°C to 37°C in a humidified chamber

<sup>3</sup>NR-28634 was deposited to BEI Resources as A/Hong Kong/1/1968-2 mouse-adapted 21-2 (H3N2), but nucleotide sequence obtained from the same source material by the NIAID Influenza Genome Sequencing Consortium was deposited to NCBI and IRD as A/Hong Kong/1-2-MA21-2/1968 (H3N2).

## Certificate of Analysis for NR-28634

<sup>4</sup>Among several specific mutations in the A/Hong Kong/1-2-MA21-2/1968 (H3N2) genome, the neuraminidase gene (RNA segment 6) (GenBank: CY033107) contains a G to A transition at nucleotide 1192 relative to the parental wild type A/Hong Kong/1/1968 (H3N2) virus. This point mutation is unique to this isolate and serves to confirm the identity of the strain.

<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 MAR 2015

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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