

Influenza A Virus, A/Hong Kong/1/1968-1 Mouse-Adapted 12A (H3N2)

Catalog No. NR-28622

Product Description: Pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs¹ infected with influenza A virus, A/Hong Kong/1/1968-1 mouse-adapted 12A (H3N2)

Passage History: MKX/MK2E2/E1M2ML12M2E2/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

Lot²: 62187921

Manufacturing Date: 09JAN2014

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity Using Embryonated Chicken Eggs¹ Hemagglutination activity using allantoic fluid from infected eggs and 0.5% chicken red blood cells	Positive	Positive
Sequencing of Hemagglutinin and Matrix Coding Regions³ Hemagglutinin (778 nucleotides) Matrix (915 nucleotides)	Consistent with A/Hong Kong/1-1-MA-12A/1968 (H3N2) Consistent with A/Hong Kong/1-1-MA-12A/1968 (H3N2)	99% identity with A/Hong Kong/1-1-MA-12A/1968 (H3N2) (GenBank: CY034942) 100% identity with A/Hong Kong/1-1-MA-12A/1968 (H3N2) (GenBank: CY034943)
Strain Identification by Sequencing of HA Coding Region⁴	Identity confirmed	Identity confirmed
Titer by CEID₅₀ Assay^{5,6} in Embryonated Chicken Eggs¹	Report results	8.9 × 10 ⁸ CEID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁷ , 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

¹10-day-old SPF Embryonated Chicken Eggs acquired from B&E Eggs, York Springs, Pennsylvania

²Grown in the allantoic cavity of embryonated chicken eggs¹ for 2 days at 35°C to 37°C in a humidified chamber

³NR-28622 was deposited to BEI Resources as A/Hong Kong/1/1968-1 mouse-adapted 12A (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/1-1-MA-12A/1968 (H3N2).

⁴Among several specific mutations in the influenza A/Hong Kong/1-1-MA-12A/1968 (H3N2) genome, the HA gene (RNA segment 4) (GenBank: CY034942) contains an A to G transition at nucleotide 787 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.

⁵The Chicken Embryo Infectious Dose 50% (CEID₅₀) is the dilution of virus that under the conditions of the assay can be expected to infect 50% of

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the inoculated embryonated chicken eggs, 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 CEID₅₀ provides a measure of the infectious titer (or infectivity) of a virus preparation.

⁶2 days at 35°C in a humidified chamber

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

Date: 07 OCT 2014

Signature:



Title:

Technical Manager, BEI Authentication or designee

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