

Kilbourne F12: A/Sichuan/60/1989 (HA, NA) x A/Puerto Rico/8/1934 (H3N2), NA Deficient

Catalog No. NR-3493

Product Description: Pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs¹ infected with reassortant influenza A virus, A/Sichuan/60/1989 (HA, NA) x A/Puerto Rico/8/1934 (H3N2), NA Deficient

Lot^{2,3}: 60341172

Manufacturing Date: 01DEC2011

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 Regions Hemagglutinin (657 nucleotides) Matrix gene (924 nucleotides)	Consistent with H3N2 influenza A virus ⁴ Consistent with A/Puerto Rico/8/1934 (H1N1)	Consistent with H3N2 influenza A virus ⁴ 100% identity with A/Puerto Rico/8/1934 (H1N1) (GenBank: CY033578)
Titer by CEID₅₀ Assay^{5,6} in Embryonated Chicken Eggs¹	Report results	1.6 × 10 ⁹ 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- to 11-day-old SPF Embryonated Chicken Eggs acquired from B&E Eggs, York Springs, Pennsylvania

²Derived from NIAID Catalog No. V-331-0E4738

³Grown in the allantoic cavity of embryonated chicken eggs¹ for 2 days at 35°C in a humidified chamber

⁴The H3 HA sequence of influenza A/Sichuan/60/1989 is not in the NCBI database; the HA sequence obtained for NR-3493 is consistent with those of H3N2 influenza viruses isolated in Sichuan, China, in 1989 and 1990.

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 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: 29 MAY 2012

Signature: 

Title: Technical Manager, BEI Authentication or designee

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