

Influenza A Virus, A/New Caledonia/20/99 (HA, NA) x A/Puerto Rico/8/34 (H1N1), Reassortant X-139 (Kilbourne F98)

Catalog No. NR-9692

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Product Description: Pooled allantoic fluid from specific-pathogen free (SPF) embryonated chicken eggs¹ infected with influenza A virus, A/New Caledonia/20/99 (HA, NA) x A/Puerto Rico/8/34 (H1N1), Reassortant X-139 (Kilbourne F98).

Lot^{2,3}: 58155270

Manufacturing Date: 25APR2008

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 Infected embryonated chicken eggs	Hemagglutination activity Report results	Hemagglutination activity No death of embryo
Sequencing of Species-Specific Region	Consistent with influenza A virus	Consistent with influenza A virus
Titer by CEID₅₀ Assay^{4,5} in Embryonated Chicken Eggs¹	Report results	1.58 X 10 ⁷ CEID ₅₀ /mL
Functional Activity by RT-PCR Assay⁶	~ 1030 bp amplicon	~ 1030 bp amplicon
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 Sheep blood agar, 37°C, aerobic Sheep 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 Fertile Chicken Eggs acquired from B&E Eggs, York Springs, Pennsylvania.

²Source virus for this lot was prepared in embryonated hen eggs and provided by the Centers for Disease Control and Prevention, Atlanta, Georgia.

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

⁴The 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.

⁵48 hours at 35°C in a humidified chamber.

⁶The primers are described in Hoffmann, E., et al. "Universal Primer Set for the Full-Length Amplification of All Influenza A Viruses." *Arch. Virol.* 146 (2001): 2275-2289. PubMed: 11811679.

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

Date: 12 JAN 2009

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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