

Influenza A Virus, A/Brisbane/59/07 (H1N1)

Catalog No. NR-12282

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Product Description: Pooled allantoic fluid from specific-pathogen free (SPF) embryonated chicken eggs¹ infected with influenza A virus, A/Brisbane/59/07 (H1N1).

Lot^{2,3}: 58550257

Manufacturing Date: 20MAR2009

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 Species-Specific Region (~ 870 nucleotides)	Influenza A virus	Influenza A virus
Titer by CEID₅₀ Assay^{4,5} in Embryonated Chicken Eggs¹	Report results	1.75 X 10 ¹⁰ CEID ₅₀ /mL
RT-PCR Assay of Extracted RNA⁶	~ 1030 bp amplicon	~ 1030 bp amplicon
Sterility (BacT/ALERT[®] 3D Microbial Detection System) 14-day incubation of NR-12282: i NST culture bottle, 32°C, anaerobic i AST culture bottle, 32°C, aerobic	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 Fertile Chicken Eggs acquired from B&E Eggs, York Springs, Pennsylvania

²Source virus for this lot was prepared in embryonated chicken eggs and provided by the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH. Influenza A virus, A/Brisbane/59/07 (H1N1) was originally isolated in Brisbane, Australia in 2007 from a 47-year-old female. Following isolation this strain was passaged in eggs at the CDC followed by two egg passages at Baylor College of Medicine prior to deposition.

³Grown in the allantoic cavity of embryonated chicken eggs¹ for 48 hours 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.

⁵2 days 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.

Date: 29 SEP 2009

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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