b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-29028

Influenza A Virus, A/Puerto Rico/8-9VMC3/1934 (H1N1)

Catalog No. NR-29028

Product Description:

Influenza A virus, A/Puerto Rico/8-9VMC3/1934 (H1N1) was isolated from lung tissue after nine passages of a mouse-adapted strain of influenza A virus, A/Puerto Rico/8/1934 (H1N1) in outbred Swiss mice previously vaccinated with inactivated virus.[1] NR-29028 lot 70063487 was produced in the allantoic cavity of specific pathogen free (SPF) embryonated chicken eggs (10- to 11-day-old; AVSBio, Norwich, Connecticut, USA) infected with the seed material for 2 days at 35°C in a humidified chamber.

Lot: 70063487 **Manufacturing Date: 18OCT2023**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity Using Embryonated Chicken Eggs		
Hemagglutination activity using allantoic fluid from infected eggs and 0.5% turkey red blood cells	Positive	Positive
Sequencing of Hemagglutinin and Matrix Coding Regions		
Hemagglutinin (~ 1000 nucleotides)	≥ 98% identity with A/Puerto Rico/8-9VMC3/1934 (H1N1) (GenBank: CY083998)	99.9% identity with A/Puerto Rico/8-9VMC3/1934 (H1N1) (GenBank: CY083974.1)
Matrix (~ 580 nucleotides)	≥ 98% identity with A/Puerto Rico/8-9VMC3/1934 (H1N1) (GenBank: CY083999)	100% identity with A/Puerto Rico/8-9VMC3/1934 (H1N1) (GenBank: CY083999.1)
Titer by $CEID_{50}$ Assay in Embryonated Chicken Eggs[1] (2 days at 35°C in a humidified chamber)	Report results	5.0×10^7 $CEID_{50}$/mL
Sterility test (BacT/ALERT 3D)		
iAST bottle (aerobic) at 32.5°C, 14-day incubation	No growth	No growth
iNST bottle (anaerobic) at 32.5°C, 14-day incubation	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

[1]The Chicken Embryo Infectious Dose 50% ($CEID_{50}$) 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_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $CEID_{50}$ provides a measure of the infectious titer (or infectivity) of a virus preparation.

/Sonia Bjorum Brower/
Sonia Bjorum Brower 30 JUL 2024
Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

ATCC® is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

© 2024 American Type Culture Collection (ATCC). All rights reserved.