Product Information Sheet for NR-3169

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

Catalog No. NR-3169

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For research use only. Not for human use.

Contributor:

National Institutes of Allergy and Infectious Diseases (NIAID), National Institutes of Health

Manufacturer:

Parke, Davis and Company, PH-43-62-841

Product Description:

Reagent: Seed Virus
Virus Classification: *Orthomyxoviridae, Influenzavirus A*
Species: Influenza A virus
Strain/Isolate: A/Puerto Rico/8/1934 (H1N1); also A/PR/8/34(H1N1)
NIAID Class: Research Reference Reagent
Source: National Centers for Disease Control
Donor Passage History (# of passages): Ferret (8)/Mouse (593)/Chicken embryo (165)
Producer Passage History (# of passages): Chicken embryo (2)
Comments: Sequence information is available for influenza A virus, A/Puerto Rico/8/1934 at the Influenza Research Database

Note: BEI Resources was asked to distribute this virus preparation from NIAID's historical repository. Historical characterization information is shown below in the Functional Activity and Purity sections (tests performed in June, 1969). Recent characterization information is shown on the Certificate of Analysis.

Material Provided/Storage:

Composition: Allantoic fluid
Volume: 1.0 mL
Storage Temperature: -60°C or colder

Functional Activity (June 1969):

Infectivity:
Conditions: 10 to 11 day chicken embryo
$TCID_{50}$:[1] 2×10^6 per mL
Complement Fixation:
Conditions: 2 units of activated complement (C'); 30 minutes at 37°C
Titer: 1:8
Hemagglutination:
Conditions: Human type O red blood cells; 1 hour at room temperature
Titer: 1:320

Purity (June 1969):

Serum Neutralization Breakthrough: Negative
Bacterial Sterility: Negative
Mycoplasma: Negative

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Influenza A Virus, A/Puerto Rico/8/1934 (H1N1), NR-3169."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

1. The Tissue Culture Infectious Dose 50% ($TCID_{50}$) endpoint is the 50% infectious endpoint in tissue culture. The $TCID_{50}$ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the cultures inoculated, 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 $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.
2. Francis, T., Jr. "Immunological Relationships of Strains of Filtrable Virus Recovered from Cases of Human Influenza." Proc. Soc. Exp. Biol. Med. 32 (1935): 1172-1175.

Support Provided by NIAID

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