

Influenza A Virus, A/swine/1976/1931 (H1N1)

Catalog No. NR-3168

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Contributor:

National Institutes of Allergy and Infectious Diseases,
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/swine/1976/1931 (H1N1)

NIAID Class: Research Reference Reagent

Source: National Centers for Disease Control

Donor Passage History (# of passages):

Mouse (38)

Chicken embryo (46)

Producer Passage History (# of passages):

Chicken embryo (2)

Comments: Sequence information is available for influenza

A virus, A/swine/1976/1931 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

TCID₅₀: ¹ <100 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/swine/1976/1931 (H1N1), NR-3168."

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.

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References:

1. The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in tissue culture. The TCID₅₀ 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% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.
2. Shope, R. E. "Swine Influenza: I. Experimental Transmission and Pathology." J. Exp. Med. 54 (1931): 349–359. PubMed: 19869922.

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