Product Information Sheet for NR-13658

Influenza A Virus, A/California/04/2009 (H1N1)pdm09, Cell Isolate (Produced in Cells)

Catalog No. NR-13658

For research use only. Not for use in humans.

Contributor:
Alexander Klimov, Ph.D., Chief, Viral Surveillance and Diagnostic Branch, Influenza Division, National Center for Immunization and Respiratory Diseases, Coordinating Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia, USA

Manufacturer:
BEI Resources

Product Description:
Virus Classification: *Orthomyxoviridae*, *Influenzavirus A*
Species: Influenza A virus
Strain: A/California/04/2009 (H1N1)pdm09
Original Source: Influenza A virus, A/California/04/2009 (H1N1)pdm09 was isolated from a 10-year-old boy with asthma in San Diego County, California on April 1, 2009.[1]
Comments: Sequence information is available for influenza A virus, A/California/04/2009 (H1N1)pdm09 at the Influenza Research Database.

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from Madin-Darby canine kidney cells infected with influenza A virus, A/California/04/2009 (H1N1)pdm09.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:
NR-13658 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:
Host: Madin-Darby canine kidney cells (MDCK; ATCC® CCL-34™)
Growth Medium: Eagle's Minimum Essential Medium modified to contain Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1500 mg/L sodium bicarbonate, supplemented with 0.125% BSA, 10 mM HEPES, and 1 to 2 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin
Infection: Cells should be 80-90% confluent (not 100% confluent)
Incubation: 2 to 7 days at 33.5°C to 35°C and 5% CO_2
Cytopathic Effect: Cell rounding and sloughing

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Influenza A Virus, A/California/04/2009 (H1N1)pdm09, Cell Isolate (Produced in Cells), NR-13658."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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References:
1. Dawood, F. S., et al. "Emergence of a Novel Swine-Origin Influenza A (H1N1) Virus in Humans." N. Engl. J. Med. 360 (2009): 2605-2615. PubMed: 19423869. Erratum in N. Engl. J. Med. 361 (2009): 102.

2. Garten, R. J., et al. "Antigenic and Genetic Characteristics of Swine-Origin 2009 A(H1N1) Influenza Viruses Circulating in Humans." Science 325 (2009): 197-201. PubMed: 19465683.

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BEI Resources
www.beiresources.org

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