

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-3615

Kilbourne F130: A/New Jersey/11/1976 (HA, NA) x A/Puerto Rico/8/1934 (H1N1), Large Plaque, Reassortant/Mutant X-53 (CL) – Lp

Catalog No. NR-3615

Derived from NIAID Catalog No. V-331-0E5495

For research use only. Not for human use.

Contributor:

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

Manufacturer:

BEI Resources

Product Description:

Virus Classification: Orthomyxoviridae, Influenzavirus A

Species: Influenza A virus

Reassortant/Mutant: A/New Jersey/11/1976 (HA, NA) x A/Puerto Rico/8/1934 (H1N1), Large Plaque [Kilbourne F130; X-53 (CL) – Lp]¹⁻³

Parents: A/New Jersey/11/1976 (H1N1) and A/Puerto Rico/8/1934 (H1N1)

Comments: NR-3615 is a large plaque mutant isolated after multiple passages of X-53 (CL) (Kilbourne F129; BEI Resources NR-3616)⁴ in MDCK cells. 1,5 X-53 (CL) in turn, was derived by limiting dilution cloning in eggs of X-53 (Kilbourne F128; BEI Resources NR-3664), which is a medium yield A/New Jersey/11/1976 (HA, NA) x A/Puerto Rico/8/1934 (H1N1) reassortant.⁶ The HA and NA genes of NR-3615 are definitively derived from influenza A/New Jersey/11/1976 (H1N1) (Kilbourne F9, BEI Resources NR-3595), a human isolate recovered during the 1976 swine flu epidemic at Fort Dix, NJ. All other genes are from A/Puerto Rico/8/1934 (H1N1). The derivation and properties of various A/New Jersey/11/1976 (H1N1) reassortants, as well as cloned derivatives, mutants, and re-reassortants thereof, have been described in detail. 5,8,9 The HA of NR-3615 is the low yield (L) variant of A/New The change from H to L Jersey/11/1976 (H1N1). phenotype is associated with a single amino acid change in the HA protein.5

Material Provided:

Each vial contains approximately 1 mL of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with reassortant/mutant influenza A virus, A/New Jersey/11/1976 (HA, NA) x A/Puerto Rico/8/1934 (H1N1), Large Plaque.

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

Packaging/Storage:

NR-3615 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: 9- to 11-day-old SPF embryonated chicken eggs
Infection: Embryonated chicken eggs must be candled for viability prior to inoculation

Incubation: 2 days at 35°C in a humidified chamber

<u>Effect</u>: Hemagglutination activity using chicken red blood cells and allantoic fluid from infected embryonated chicken eggs

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Kilbourne F130: A/New Jersey/11/1976 (HA, NA) x A/Puerto Rico/8/1934 (H1N1), Large Plaque, Reassortant/Mutant X-53 (CL) – Lp, NR-3615."

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:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898



SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-3615

Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

- https://www.beiresources.org/Portals/2/Flu-archiveDocs/ F130.doc
- 2. https://www.beiresources.org/Flu-archive.aspx
- 3. http://www.beiresources.org/FluVirusCatalog.aspx
- 4. https://www.beiresources.org/Portals/2/Flu-archiveDocs/F129.doc
- Both, G. W., C. H. Shi and E. D. Kilbourne. "Hemagglutinin of Swine Influenza Virus: A Single Amino Acid Change Pleiotropically Affects Viral Antigenicity and Replication." <u>Proc. Natl. Acad. Sci.</u> <u>USA</u>. 80 (1983): 6996-7000. PubMed: 6580621.
- 6. https://www.beiresources.org/Portals/2/Flu-archiveDocs/F128.doc
- 7. https://www.beiresources.org/Portals/2/Flu-archiveDocs/F9.doc
- Kilbourne, E. D. "Genetic Dimorphism in Influenza Viruses: Characterization of Stably Associated Hemagglutinin Mutants Differing in Antigenicity and Biological Properties." <u>Proc. Natl. Acad. Sci. USA</u>. 75 (1978): 6258-6262. PubMed: 282644.
- Kilbourne, E. D., W. Gerhard and C. W. Whitaker. "Monoclonal Antibodies to the Hemagglutinin Sa Antigenic Site of A/PR/8/34 Influenza Virus Distinguish Biologic Mutants of Swine Influenza Vrus." <u>Proc. Natl.</u> <u>Acad. Sci. USA</u>. 80 (1983): 6399-6402. PubMed: 6194531.

ATCC[®] is a trademark of the American Type Culture Collection

Support Provided by NIAID

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898