

Product Information Sheet for NR-3685

Kilbourne F125: A/Victoria/3/1975 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H3N7), Reassortant X-48R

Catalog No. NR-3685

Derived from NIAID Catalog No. V-331-0TC445

For research use only. Not for human use.

Contributor:

National Institutes 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: A/Victoria/3/1975 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H3N7) (Kilbourne F125; X-48R)¹⁻³

Parents: X-47 (H3N2)⁴ and A/equine/Prague/1/1956 (H7N7)

Comments: The X-47 parent is Kilbourne F123: A/Victoria/3/1975 (HA, NA) x A/Puerto Rico/8/1934 (H3N2), and is available as BEI Resources NR-3663. Nucleotide sequencing at BEI Resources of a portion of the matrix (M) gene (RNA 7) from NR-3685 indicates that the M gene is derived from A/equine/Prague/1/1956 (H7N7). Since the complete genotype of X-47 has been determined,⁵ it is possible to infer that the polymerase basic subunit 2 (PB2) gene (RNA 1), the polymerase acidic subunit (PA) gene (RNA 3), and the nonstructural protein (NS) gene (RNA 8) are derived from either A/equine/Prague/1/1956 (H7N7) or A/Puerto Rico/8/1934 (H1N1) while the polymerase basic subunit 1 (PB1) gene (RNA 2) and the nucleoprotein (NP) gene (RNA 6) are derived from either A/Victoria/3/1975 (H3N2) or A/equine/Prague/1/1956 (H7N7).

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells (ATCC® CCL-34™) infected with reassortant influenza A virus, A/Victoria/3/1975 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H3N7).

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

Packaging/Storage:

NR-3685 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: MDCK cells (ATCC® CCL-34™)

Growth Medium: Eagle's Minimum Essential Medium supplemented with 0.125% bovine serum albumin and 1 to 2 µg per mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin

Infection: Cells should be 100% confluent

Incubation: 2 to 10 days at 37°C and 5% CO₂

Cytopathic Effect: Cell rounding and detachment

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Kilbourne F125: A/Victoria/3/1975 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H3N7), Reassortant X-48R, NR-3685."

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. <https://www.beiresources.org/Portals/2/Flu-archiveDocs/F125.doc>
2. <https://www.beiresources.org/Flu-archive.aspx>
3. <https://www.beiresources.org/FluVirusCatalog.aspx>
4. <https://www.beiresources.org/Portals/2/Flu-archiveDocs/F123.doc>
5. Baez, M., P. Palese and E. D. Kilbourne. "Gene Composition of High-Yielding Influenza Vaccine Strains Obtained by Recombination." *J. Infect. Dis.* 141 (1980): 362-365. PubMed: 7365284.

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