

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-3510

Kilbourne F77: A/Beijing/32/1992 (HA) x A/Beijing/353/1989 (NA) x A/Puerto Rico/8/1934 (H3N2), Reassortant X-115

Catalog No. NR-3510

Derived from NIAID Catalog No. V-331-0E4982

For research use only. Not for human use.

Contributor:

National Institute of Allergy and Infectious Diseases, National Institutes of Health

Manufacturer:

BEI Resources

Product Description:

Virus Classification: Orthomyxoviridae, Influenzavirus A

Species: Influenza A virus

Reassortant: A/Beijing/32/1992 (HA) x A/Beijing/353/1989 (NA) x A/Puerto Rico/8/1934 (H3N2) (Kilbourne F77; X-115)¹⁻³

Parents: RV5A (H3N1) and X-110 (H6N2)

Comments: NR-3510 is a double reassortant developed with the intent of inserting the proper N2 neuraminidase into the high yield but antigenically hybrid RV5A reassortant virus. RV5A is A/Beijing/32/1992 x A/Puerto Rico/8/1934 (H3N1). X-110 (Kilbourne F74; BEI Resources NR-3516) is a reassortant of two other reassortants, and one of those viruses is also a double reassortant.⁴ In total, seven influenza A strains were involved in the derivation of NR-3510, but three of these did not contribute any genome segments to the final reassortment event.⁵⁻⁸ Nucleotide sequencing of the matrix protein coding region of NR-3510 at BEI Resources has confirmed that RNA segment 7 is derived from A/Puerto Rico/8/1934. The genome segments encoding the other internal virion proteins and the non-structural protein may be derived from either A/Beijing/353/1989, A/Beijing/32/1992, A/Puerto Rico/8/1934. or A/Taiwain/1/1986.

Material Provided:

Each vial contains approximately 1 mL of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with reassortant influenza A virus, A/Beijing/32/1992 (HA) x A/Beijing/353/1989 (NA) x A/Puerto Rico/8/1934 (H3N2).

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

Packaging/Storage:

NR-3510 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:

<u>Host</u>: 10- to 11-day-old SPF embryonated chicken eggs <u>Infection</u>: 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 F77: A/Beijing/32/1992 (HA) x A/Beijing/353/1989 (NA) x A/Puerto Rico/8/1934 (H3N2), Reassortant X-115, NR-3510."

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. http://www.flu-archive.org/data_sheets/F77.doc
- 2. http://www.flu-archive.org/
- 3. http://www.flu-archive.org/search/results.pl?search_string=&join_type=and
- 4. http://www.flu-archive.org/data_sheets/F74.doc
- 5. http://www.flu-archive.org/data_sheets/F73.doc
- 6. http://www.flu-archive.org/data_sheets/F174.doc
- 7. http://www.flu-archive.org/data_sheets/F169.doc
- 8. http://www.flu-archive.org/data_sheets/F108.doc

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