

Kilbourne F95: A/Shenzhen/227/1995 (HA, NA) x A/Puerto Rico/8/1934 (H1N1), Reassortant X-133

Catalog No. NR-3549

Derived from NIAID Catalog No. V-331-0E5231

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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: A/Shenzhen/227/1995 (HA, NA) x A/Puerto Rico/8/1934 (H1N1) (Kilbourne F95; X-133)¹⁻³

Parents: A/Shenzhen/227/1995 (H1N1) and X-31 (H3N2)

Comments: X-31 (Kilbourne F108) is A/Aichi/2/1968 (HA, NA) x A/Puerto Rico/8/1934 (H3N2)⁴ and is available as BEI Resources NR-3483. X-31 has been shown to contain only the HA and NA genes from A/Aichi/2/1968 (H3N2). These two genes were replaced by the HA and NA from A/Shenzhen/227/1995 (H1N1) in NR-3549. Thus, NR-3549 does not contain any genes from A/Aichi/2/1968 (H3N2). Transfer of the matrix gene (RNA 7) from A/Puerto Rico/8/1934 (H1N1) to X-133 was confirmed by PAGE analysis.¹

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/Shenzhen/227/1995 (HA, NA) x A/Puerto Rico/8/1934 (H1N1).

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

Packaging/Storage:

NR-3549 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

Effect: 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 F95: A/Shenzhen/227/1995 (HA, NA) x A/Puerto Rico/8/1934 (H1N1), Reassortant X-133, NR-3549."

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/bmbli5/index.htm.

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References:

1. http://www.flu-archive.org/data_sheets/F95.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/F108.doc

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