

Kilbourne F108: A/Aichi/2/68 (HA, NA) x A/Puerto Rico/8/34 (H3N2), Reassortant X-31 (Derived from Mouse-Adapted X-31b)**Catalog No. NR-3483**

Derived from NIAID Catalog No. V-331-0E4554

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

Product Description:

Virus Classification: *Orthomyxoviridae, Influenzavirus A*

Species: Influenza A virus

Reassortant: A/Aichi/2/68 (HA, NA) x A/Puerto Rico/8/34 (H3N2) (Kilbourne F108; X-31)¹⁻³

Comments: NR-3483 was prepared from mouse-adapted seed virus (X-31b). This is a 6:2 reassortant, based on the PAGE analysis of virus proteins. RNA 4 [hemagglutinin (HA)] and RNA 6 [neuraminidase (NA)] are from A/Aichi/2/68 (H3N2); the other six segments, including RNA 7 [matrix (M)], are from A/Puerto Rico/8/34 (H1N1).¹

Material Provided:

Each vial contains approximately 1 mL of pooled allantoic fluid from specific-pathogen free (SPF) embryonated chicken eggs infected with mouse-adapted reassortant influenza A virus, A/Aichi/2/68 (HA, NA) x A/Puerto Rico/8/34 (H3N2), X-31b.

Packaging/Storage:

NR-3483 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°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: 1 to 3 days at 35°C in a humidified chamber without CO₂

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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Kilbourne F108: A/Aichi/2/68 (HA, NA) x A/Puerto Rico/8/34 (H3N2), Reassortant X-31 (Derived from Mouse-

adapted X-31b), NR-3483."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. http://www.flu-archive.org/data_sheets/F108.doc
2. <http://www.flu-archive.org/>
3. http://www.flu-archive.org/search/results.pl?search_string=&join_type=and
4. Johansson, B. E. and E. D. Kilbourne. "Immunization with Dissociated Neuraminidase, Matrix, and Nucleoproteins from Influenza A Virus Eliminates Cognate Help and Antigenic Competition." *Virology* 225

(1996): 136-144. PubMed: 8918540.

5. Brett, I., J. Werber, and E. D. Kilbourne. "Rapid Confirmation by RFLP of Transfer to Vaccine Candidate Reassortment Viruses of the Principal 'High Yield' Gene of Influenza A Viruses." J. Virol. Methods 100 (2002): 133-140. PubMed: 11742660.

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