

## Fluzone® Influenza Virus Vaccine, 2010-2011 Formula

### Catalog No. NR-31044

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**For research use only. Not for human use.**

#### Contributor:

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

#### Manufacturer:

Sanofi Pasteur, Inc., Swiftwater, Pennsylvania, U.S.A.

#### Product Description:

NR-31044 is a split-virus vaccine prepared from influenza viruses A/California/07/2009 X-179A (H1N1)pdm09, A/Victoria/210/2009 X-187 (H3N2) (an A/Perth/16/2009-like virus) and B/Brisbane/60/2008 that were predicted to circulate in the United States during the 2010 to 2011 influenza season.<sup>1,2</sup>

NR-31044 was prepared from the allantoic fluid of embryonated chicken eggs. The fluid containing the virus was harvested and the virus inactivated with formaldehyde. The inactivated virus was concentrated and purified in a linear sucrose density gradient solution using a continuous flow centrifuge. The virus was then chemically disrupted using a nonionic surfactant (Triton® X-100) producing a split-virus. The split-virus was further purified by chemical means and suspended in sodium phosphate-buffered isotonic sodium chloride solution. Gelatin 0.05% was added as a stabilizer.<sup>2</sup> Thimerosal was added as a preservative.

The hemagglutinin content was standardized according to U.S. Public Health Service requirements. Each 0.5 mL dose contains the recommended ratio of 15 µg each of the hemagglutinin antigens from influenza viruses A/California/07/2009 X-179A (H1N1)pdm09, A/Victoria/210/2009 X-187 (H3N2) (an A/Perth/16/2009-like virus) and B/Brisbane/60/2008.<sup>2</sup>

Please note that this vaccine preparation is being released for research use only and not for human use. Vaccines produced for the 2010-2011 season are now past their expiration dates.

#### Material Provided:

Each vial contains 5.0 mL of split-virus vaccine in sodium phosphate-buffered isotonic sodium chloride solution containing 0.05% gelatin per 0.5 mL dose and the preservative thimerosal (250 µg mercury).

#### Packaging/Storage:

NR-31044 is packaged in a 5.0 mL multi-dose glass vial. The product is provided on refrigerated bricks and should be stored at 2°C to 8°C immediately upon arrival. Do not freeze.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Fluzone® Influenza Virus Vaccine, 2010-2011 Formula, NR-31044."

#### Biosafety Level: 1

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/od/ohs/biosfty/bml5/bml5toc.htm](http://www.cdc.gov/od/ohs/biosfty/bml5/bml5toc.htm).

#### Disclaimers:

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#### References:

1. Fiore, A. E., et al. "Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2010." MMWR Recomm. Rep. 59 (2010): 1-62. PubMed: 20689501.

2. <http://www.fda.gov/BiologicsBloodVaccines/Vaccines/ApprovedProducts/ucm112854.htm>

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