

## Fluzone® Influenza Virus Vaccine, 2011-2012 Formula

### Catalog No. NR-36747

This reagent is the property of the U.S. Government.

**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-36747 is a split-virus vaccine prepared from influenza viruses A/California/07/2009 X-179A (H1N1)pdm09, A/Victoria/210/2009 X-187 (an A/Perth/16/2009-like virus) (H3N2) and B/Brisbane/60/2008 that were predicted to circulate in the United States during the 2011 to 2012 influenza season.<sup>1,2</sup>

NR-36747 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>

The hemagglutinin content was standardized according to U.S. Public Health Service requirements. Each 0.5 mL syringe 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 (an A/Perth/16/2009-like virus) (H3N2) 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 2011-2012 season are now past their expiration dates.

#### Material Provided:

Each syringe contains 0.5 mL of split-virus vaccine in sodium phosphate-buffered isotonic sodium chloride solution containing 0.05% gelatin. The product was formulated without preservatives.

#### Packaging/Storage:

NR-36747 contains a pre-filled (0.5 mL) syringe. 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, 2011-2012 Formula, NR-36747."

#### 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/bmlb5/bmlb5toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmlb5/bmlb5toc.htm).

#### Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org).

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

#### Use Restrictions:

**This material is distributed for internal research, non-commercial purposes only.** This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

#### References:

1. Kelso, J., et al. "Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2011." MMWR Recomm. Rep. 60 (2011): 1128-1132. PubMed: 21957937.

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

ATCC® is a trademark of the American Type Culture Collection.

