

**Human Convalescent Serum 103 to Dengue Virus**

**Catalog No. NR-50228**

**Lot No. 64124295**

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

**Contributor and Manufacturer:**

Aravinda M. deSilva, Ph.D., M.P.H., Department of Microbiology and Immunology, and Institute for Global health and Infectious Diseases, University of North Carolina School of Medicine, Chapel Hill, North Carolina, USA

**Product Description:**

NR-50228 is convalescent serum collected from a human subject who had been exposed to dengue virus (DENV) while traveling abroad. The sample was obtained on December 9, 2009, and represents a primary DENV3 exposure based on virus type-specific neutralizing antibody titers (see Functional Activity section below).<sup>1</sup> This immune serum is useful for the development and evaluation of diagnostic assays for flaviviruses including Zika virus.

**Material Provided:**

Each vial contains approximately 0.1 mL of serum.

**Packaging/Storage:**

NR-50228 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Functional Activity:<sup>1</sup>**

50% neutralization titers:

- DENV1 – < 20
- DENV2 – < 20
- DENV3 – 278
- DENV4 – < 20

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained from the UNC/NIH Traveler Study through BEI Resources, NIAID, NIH: Human Convalescent Serum 103 to Dengue Virus, NR-50228.”

**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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.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. deSilva, A. M., Personal Communication.
2. Swanstrom, J. A., et al. “Dengue Virus Envelope Dimer Epitope Monoclonal Antibodies Isolated from Dengue Patients Are Protective against Zika Virus.” MBio. 7 (2016): e01123-16. PubMed: 27435464.

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

