

## Human Convalescent Serum 112 to Dengue Virus

**Catalog No. NR-50233**

**Lot No. 64120105**

**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-50233 is convalescent serum collected from a human subject who had been exposed to dengue virus (DENV) while traveling abroad. The sample was obtained on November 5, 2009, and represents a secondary DENV 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-50233 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 – 234  
 DENV2 – 309  
 DENV3 – 107  
 DENV4 – > 1280

### 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 112 to Dengue Virus, NR-50233.”

### 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).

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### 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.

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