Human Convalescent Serum 141 to Dengue Virus

Catalog No. NR-50232

Lot No. 64124298

For research use only. Not for human use.

Contributor and Manufacturer:
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Product Description:
NR-50232 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 7, 2014, and represents a secondary DENV exposure based on virus type-specific neutralizing antibody titers (see Functional Activity section below).[1] 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-50232 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:[1]
50% neutralization titers:
- DENV1 – 752
- DENV2 – 845
- DENV3 – 302
- DENV4 – 144

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 141 to Dengue Virus, NR-50232."

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/bmbl5/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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