CBER/FDA PRVABC59 Zika Virus RNA Reference Reagent, Heat-Inactivated

Catalog No. NR-50722

For research use only. Not for human use.

Contributor & Manufacturer:
Maria Rios, Ph.D., Center for Biologics Evaluations and Research (CBER), Food and Drug Administration (FDA), Silver Spring, Maryland, USA

Product Description:
PRVABC59 Zika virus (ZIKV) RNA reference reagent (ZIKV-RR, PRVABC59) is for use in the development and validation of ZIKV nucleic acid testing (NAT). NR-50722 consists of material produced in *Cercopithecus aethiops* kidney epithelial (Vero) cells infected with ZIKV, PRVABC59 that has been heat-inactivated at 56°C for 60 minutes, diluted in dialyzed, defibrinated human plasma and lyophilized.[1,2]

The heat-inactivated preparation of ZIKV-RR, PRVABC59 (non-lyophilized) was included in a collaborative validation studies for the World Health Organization International Standard for ZIKV (WHO ZIKV IS).[3]

ZIKV, PRVABC59, was isolated from the blood of a human in Puerto Rico in 2015. The complete genomic sequence of ZIKV, PRVABC59 has been determined (GenBank: KU501215).[4]

Material Provided:
Each ampule contains lyophilized ZIKV-RR, PRVABC59 from approximately 1 mL of heat-inactivated, clarified cell lysate and supernatant from Vero cells infected with ZIKV, PRVABC59.

Packaging/Storage:
NR-50722 was packaged aseptically in glass ampules. The product is provided frozen on dry ice and should be stored at -20°C immediately upon arrival. NR-50722 can be reconstituted with 1 mL of sterile distilled water. After rehydration NR-50722 should be stored at -60°C or colder. Freeze-thaw cycles should be avoided.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: CBER/FDA PRVABC59 Zika Virus RNA Reference Reagent, Heat-Inactivated, NR-50722."

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.

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.

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. Fares-Gusmao, R., et al. "Production and Characterization of Zika Virus RNA Reference Reagents as a Response to a Public Health Emergency." Transfusion 58 (2018): 2171-2174. PubMed: 30178463.
2. Volkova, E., et al. "Complete Genome Sequences of Zika Virus Strains Used for the Formulation of CBER/FDA RNA Reference Reagents and Lot Release Panels for Nucleic Acid Technology Testing." Genome Announc. 6 (2018): e00572-18. PubMed: 29976606.
3. Baylis, S. A., et al. "Harmonization of Nucleic Acid Testing for Zika Virus: Development of the 1st World Health Organization International Standard." Transfusion 57 (2017): 748-761. PubMed: 28229462.
4. Lanciotti, R. S., et al. "Phylogeny of Zika Virus in Western Hemisphere, 2015." Emerg. Infect. Dis. 22 (2016): 933-935. PubMed: 27088323.

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

Support Provided by NIAID

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

© 2018 American Type Culture Collection (ATCC). All rights reserved.