Product Information Sheet for NR-50279

Zika Virus, MEX I-44
Catalog No. NR-50279

For research use only. Not for human use.

Contributor:
World Reference Center for Emerging Viruses and Arboviruses, University of Texas Medical Branch, Galveston, Texas, USA

Manufacturer:
BEI Resources

Product Description:

**Virus Classification:** Flaviviridae, Flavivirus

**Species:** Zika virus

**Strain/Isolate:** MEX I-44

**Original Source:** Zika virus (ZIKV), MEX I-44 was isolated from mosquitoes (Aedes aegypti) collected in Chiapas, Mexico by Lidelfast Fernandez-Salas of the Instituto Nacional De Salud Publica in January 2016, and contributed to WRCEVA by Shannan Rossi of the Department of Pathology, Center for Biodefense and Emerging Infectious Diseases, University of Texas Medical Branch, Galveston, Texas, USA. Removal of contaminating mycoplasma required three additional virus passages at BEI Resources. The complete genome sequence of ZIKV, MEX I-44 has been determined (GenBank: KX856011). The complete genome sequence of BEI Resources NR-50279, Lot No. 64522916 has also been determined (GenBank:KY648934, ZIKV/Aedes aegypti/MEX/MEX_I-44/2016).

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**

NR-50279 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

**Host:** Cercopithecus aethiops kidney epithelial cells (Vero 76, clone E6; ATCC® CRL-1586™ or equivalent)

**Growth Medium:** Eagle’s Minimum Essential Medium containing Earle’s Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine and 1 mM sodium pyruvate supplemented with 2% fetal bovine serum, or equivalent.

**Infection:** Cells should be 70% to 90% confluent; thaw virus rapidly in a 37°C water bath; adsorb diluted virus to cells for one hour at 37°C.

**Incubation:** 5 to 9 days at 37°C and 5% CO2

**Cytopathic Effect:** Refractile cell rounding and detachment

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH, as part of the WRCEVA program: Zika Virus, MEX I-44, NR-50279.”

**Biosafety Level:** 2


**Disclaimers:**

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References:
1. Tesh, R. B., Personal Communication.
3. Shabman, R., et al. J. Craig Venter Institute, 9704 Medical Center Drive, Rockville, Maryland 20850, USA. Direct submission.

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