

# **Product Information Sheet for NR-50345**

# Genomic RNA from Chikungunya Virus, 181/25

# Catalog No. NR-50345

# For research use only. Not for use in humans.

#### **Contributor:**

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### Manufacturer:

**BEI Resources** 

#### **Product Description:**

Genomic RNA was isolated from a preparation of clarified supernatant from *Chlorocebus* (previously *Cercopithecus*) *aethiops* kidney epithelial cells (Vero; ATCC<sup>®</sup> CCL-81™) infected with chikungunya virus (CHIKV), 181/25. CHIKV, 181/25 is a live-attenuated derivative of strain AF15561, which was originally isolated from a human in Thailand in 1962.<sup>1,2,3</sup> Attenuation of 181/25 is mediated by two amino acid substitutions in the E2 glycoprotein.<sup>4</sup>

NR-50345 has been qualified for PCR applications by amplification of a sequence of more than 1000 nucleotides. Recommended dilutions for successful RT-PCR amplification are indicated on the Certificate of Analysis for each lot.

#### **Material Provided:**

Each vial contains approximately 100 µL of viral genomic RNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA. The vial should be centrifuged prior to opening.

#### Packaging/Storage:

NR-50345 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic RNA from Chikungunya Virus, 181/25, NR-50345."

# **Biosafety Level: 1**

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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

#### Disclaimers:

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## References:

- Harrison, V. R., et al. "Production and Evaluation of a Formalin-Killed Chikungunya Vaccine." <u>J. Immunol.</u> 107 (1971): 643-647. PubMed: 4999088.
- Levitt, N. H., et al. "Development of an Attenuated Strain of Chikungunya Virus for Use in Vaccine Production." <u>Vaccine</u> 4 (1986): 157-162. PubMed: 3020820.
- Edelman, R., et al. "Phase II Safety and Immunogenicity Study of Live Chikungunya Virus Vaccine TSI-GSD-218." <u>Am. J. Trop. Med. Hyg.</u> 62 (2000): 681-685. PubMed: 1130405.
- Gorchakov, R., et al. "Attenuation of Chikungunya Virus Vaccine Strain 181/Clone 25 is Determined by Two Amino Acid Substitutions in the E2 Envelope Glycoprotein." <u>J. Virol.</u> (2012): 6084-6096. PubMed: 22457519

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