Genomic RNA from Dengue Virus Type 4, H241 (Tissue Culture Adapted)

Catalog No. NR-4289

For research use only. Not for use in humans.

Contributor:
ATCC®

Manufacturer:
BEI Resources

Product Description:
Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Macaca mulatta* (Rhesus monkey) kidney cells (LLC-MK2 derivative; ATCC® CCL-7.1™) infected with dengue virus type 4 (DENV-4), H241 (tissue culture adapted). DENV-4, H241 was derived from an existing strain. The original H241 strain was isolated in 1956 from the serum of a patient in the Philippine Islands.

NR-4289 has been qualified for RT-PCR applications by amplification of a sequence of approximately 500 to 1100 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 to 8). 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-4289 was packaged aseptically in 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 Dengue Virus Type 4, H241 (Tissue Culture Adapted), NR-4289."

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). Current Edition. Washington, DC: U.S. Government Printing Office.

Disclaimers:
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References:
1. Kawano H., et al. "Genetic Determinants of Dengue Type 4 Virus Neurovirulence for Mice." J. Virol. 67 (1993): 6567-6575. PubMed: 8411360.
2. Añez G., et al. "Complete Genome Sequences of Dengue Virus Type 1 to 4 Strains Used for the Development of CBER/FDA RNA Reference Reagents and WHO International Standard Candidates for Nucleic Acid Testing". Genome Announc. 4 (2016):e01583-15. PubMed: 26868382.

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