

Genomic RNA from Dengue Virus Type 1, Hawaii

Catalog No. NR-4287

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 African green monkey cells (Vero; ATCC® CCL-81™) infected with dengue virus type 1 (DEN-1), Hawaii (BEI Resources NR-82, derived from ATCC® VR-1254™). DEN-1, Hawaii was isolated in 1944 from the pooled serum of six patients in Hawaii.^{1,2} The complete genome of DEN-1, Hawaii (ATCC® VR-1254™) has been sequenced (GenBank: [EU848545](https://www.ncbi.nlm.nih.gov/nuccore/EU848545)).³

NR-4287 has been qualified for PCR applications by amplification of an approximately 1000 base pairs. 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 8.0). 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-4287 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 Dengue Virus Type 1, Hawaii, NR-4287."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

1. Sabin, A. B. and R. W. Schiesinger. "Production of Immunity to Dengue with Virus Modified by Propagation in Mice." Science 101 (1945): 640-642. PubMed: 17844088.
2. Sabin, A. B. "The Dengue Group of Viruses and its Family Relationships." Bacteriol. Rev. 14 (1950): 225-232. PubMed: 14772197.
3. Hibberd, M., et al. "Genome Sequence of DENV-1/US/Hawaii/1944 Reference Strain." Direct submission. (2008). GenBank: EU848545.
4. Holmes, E. C. and S. S. Twiddy. "The Origin, Emergence and Evolutionary Genetics of Dengue Virus." Infect. Genet. Evol. 3 (2003): 19-28. PubMed: 12797969.

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