

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

Catalog No. NR-4289

For research use only. Not for human use.

Contributor:
ATCC®

Manufacturer:
BEI Resources

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from Rhesus monkey kidney (LLC-MK2 derivative) cells infected with dengue virus type 4 (DEN-4), H241 (tissue culture adapted).

DEN-4, H241 (tissue culture adapted) was derived from an existing strain. The original H241 strain was isolated in 1956 from the serum of a patient in the Philippine Islands. The complete genome of DEN-4, H241 has been sequenced (GenBank: AY947539).¹

NR-4289 has been qualified for RT-PCR applications by amplification of a sequence of approximately 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 genomic RNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7) containing sodium azide (lot 63719710 contains only trace amounts of sodium azide; the sodium azide content of lot 57558393 is given on the Certificate of Analysis). 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 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 avoided.

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

1. Yip, A., et al. Direct Submission (2005). GenBank: AY947539.
2. Kawano H., et al. “Genetic Determinants of Dengue Type 4 Virus Neurovirulence for Mice.” J. Virol. 67 (1993): 6567-6575. PubMed: 8411360.

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