

Genomic RNA from Dengue Virus Type 1, TH-Sman

Catalog No. NR-2768

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Contributor:
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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), TH-Sman.

DEN-1, TH-Sman was isolated in 1958 by Dr. Sman Vardhanabhuti from the serum of a patient diagnosed with Thai hemorrhagic fever in Bangkok, Thailand.¹

NR-2768 has been qualified for RT-PCR applications by amplification of a sequence of approximately 1700 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. 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-2768 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic RNA from Dengue Virus Type 1, TH-Sman, NR-2768."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

Disclaimers:

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References:

1. Hammon, W. McD, A. Rudnick, and G. E. Sather. "Viruses Associated with Epidemic Hemorrhagic Fevers of the Philippines and Thailand." *Science* 131 (1960): 1102-1103. PubMed: 14399343.
2. Shiu, S. Y., et al. "Envelope Protein Sequences of Dengue Virus Isolates TH-36 and TH-Sman, and Identification of a Type-specific Genetic Marker for Dengue and Tick-borne Flaviviruses." *J. Gen. Virol.* 73 (1992): 207-212. PubMed: 1339466.

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