Genomic RNA from Human Enterovirus 71 (HEV-71), MP4

Catalog No. NR-4961

For research use only. Not for human use.

Contributor:
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Manufacturer:
NIH Biodefense and Emerging Infections Research Resources Repository

Product Description:
Genomic RNA was isolated from a preparation of cell lysate and supernatant from African green monkey (Vero) cells infected with human enterovirus 71 (HEV-71), MP4.

HEV-71, MP4 was derived from the existing HEV-71, Tainan/4643/1998 after four serial passages in mice. HEV-71 is a small, non-enveloped, icosahedral virus with a single-stranded, ~ 7.5 kb RNA genome of positive polarity. The single open reading frame encodes a large polyprotein of ~ 2200 amino acids and is flanked by untranslated regions at the 5' and 3' ends. The complete genome of the parental HEV-71, Tainan/4643/1998 has been sequenced (GenBank: AF304458).

NR-4961 has been qualified for PCR applications by amplification of an approximately 1200 nucleotide sequence. Recommended dilutions for successful RT-PCR amplification are indicated on the Certificate of Analysis for each lot.

Material Provided:
Each vial contains 100 µL of viral genomic RNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0) may contain 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-4961 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

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 Human Enterovirus 71 (HEV-71), MP4, NR-4961.”

Biosafety Level: 1

Disclaimers:
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References:
4. Yan, J.-J., et al “Complete Genome Analysis of

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