

**Genomic RNA from Enterovirus 71 (EV-71), MP4**

**Catalog No. NR-4961**

**Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from African green monkey (Vero) cells infected with EV-71, MP4.<sup>1</sup>

**Lot: 58066138<sup>2</sup>**

**Manufacturing Date: 13MAY2008**

| TEST  | SPECIFICATIONS            | RESULTS                                 |
|---|---------------------------|---|
| <b>Sequencing of EV-71 Specific Region</b><br>Polyprotein gene (~ 1140 nucleotides)   | Consistent with EV-71     | Consistent with EV-71                   |
| <b>Functional Activity by RT-PCR Amplification<sup>3,4</sup></b>  | ~ 1200 base pair amplicon | ~ 1200 base pair amplicon<br>(Figure 1) |
| <b>Total RNA Content by RiboGreen<sup>®</sup> Measurement<br/>(Viral, Cellular and Carrier)</b>                             | Report results            | 21.9 ng per 100 µL                      |
| <b>Total DNA Content by PicoGreen<sup>®</sup> Measurement<br/>(Viral and Cellular)</b>                                      | Report results            | 7.7 ng per 100 µL                       |
| <b>Virus Inactivation</b><br>10% of total yield inoculated on Vero cells and evaluated for cytopathic effect <sup>1,5</sup> | No virus detected         | No virus detected                       |
| <b>Sodium Azide Content</b>   | Report results            | ≤ 0.0004%                               |

<sup>1</sup>Vero cells: ATCC<sup>®</sup> CCL-81™ (lot 5067004)

<sup>2</sup>Nucleic acid was extracted from a preparation of EV-71, MP4 (BEI Resources NR-472 lot 7750290) using a QIAamp<sup>®</sup> Viral RNA Mini kit (Qiagen 52906).

<sup>3</sup>Amplified using 25-fold dilution of NR-4961 and One-Step RT-PCR Kit (Qiagen 210212)

<sup>4</sup>The primers are described in the supplemental material of Li, L., et al. "Genetic Characteristics of Human Enterovirus 71 and Coxsackievirus A16 Circulating from 1999 to 2004 in Shenzhen, People's Republic of China." *J. Clin. Microbiol.* 43 (2005): 3835-3839. PubMed: 16081920.

<sup>5</sup>This extraction procedure has been shown to consistently inactivate 100% of enteroviruses using a number of methods designed to detect the virus in cells: 1) cytopathic effect (100% plating and 10% plating) and 2) indirect immunofluorescence of viral antigens.

/Heather Couch/

Heather Couch

17 MAR 2020

Program Manager or designee, ATCC Federal Solutions

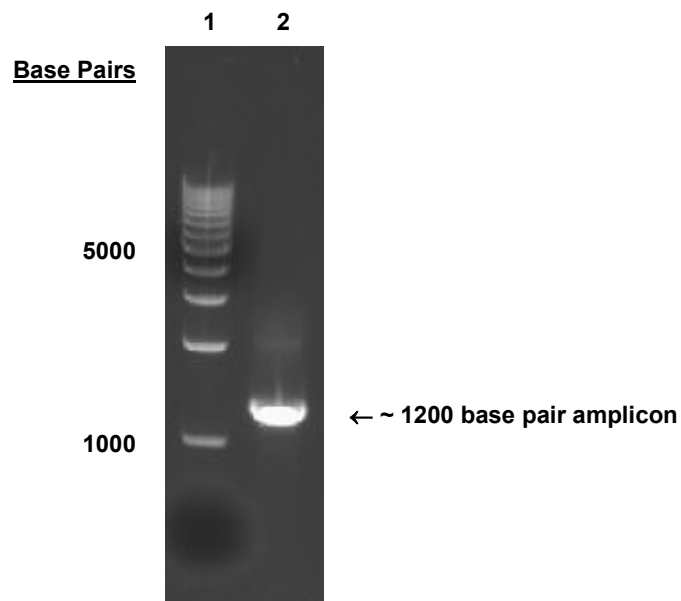
ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.



Figure 1: Agarose Gel Electrophoresis



Lane 1: BioRad EZ Load™ 1 kb Molecular Ruler

Lane 2: Amplification of NR-4961 using a 25-fold dilution