

**Genomic RNA from Zika Virus, BeH819015, Recombinant Infectious Clone**

**Catalog No. NR-51223**

**Product Description:** Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells<sup>1</sup> infected with Zika virus (ZIKV), BeH819015 recombinant infectious clone.

**Lot<sup>2</sup>: 70020822**

**Manufacturing Date: 10JAN2019**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of species-specific region (~ 840 nucleotides)	≥ 98% identity with ZIKV, BeH819015 (GenBank: KU365778) Consistent with source organism (BEI Resources NR-51129)	100% identity with ZIKV, BeH819015 (GenBank: KU365778) Consistent with NR-51129
<b>Functional Activity by RT-PCR Amplification<sup>3</sup></b> NS3-NS4 polyprotein gene	~ 1080 base pair amplicon	~ 1080 base pair amplicon (Figure 1)
<b>Pre-Vial Concentration by RiboGreen<sup>®</sup> Measurement (Viral, Cellular and Carrier)<sup>4</sup></b>	Report results	3.2 ng per 100 µL (0.032 µg/mL)
<b>Estimated Amount per Vial<sup>4</sup></b>	Report results	3.2 ng
<b>Genome Copy Number by ddPCR (Post-Vial)<sup>5</sup></b>	Report results	1.8 × 10 <sup>4</sup> genome copies/µL
<b>Virus Inactivation</b> 10% of total yield inoculated on Vero cells <sup>1</sup> and evaluated for cytopathic effect <sup>6</sup>	No viable virus detected	No viable virus detected

<sup>1</sup>Vero cells, clone E6: ATCC<sup>®</sup> CRL-1586<sup>™</sup>

<sup>2</sup>Nucleic acid was extracted from a preparation of ZIKV, BeH819015 (BEI Resources NR-51129 lot 70011621), using a QIAamp<sup>®</sup> Viral RNA Mini Kit (Qiagen 52906).

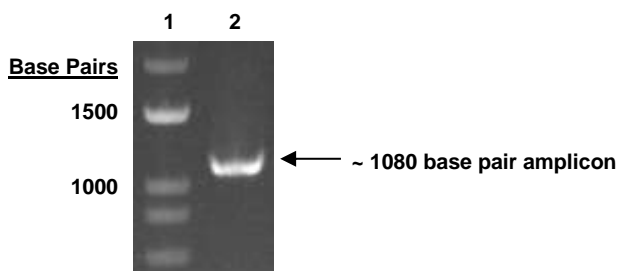
<sup>3</sup>Reverse transcription was performed using an iScript<sup>™</sup> cDNA Synthesis Kit (Bio-Rad 170-8891) with 10 µL of NR-51223 in a 20 µL reaction; PCR was performed using iTaq<sup>™</sup> DNA Polymerase (Bio-Rad 170-8870) with 2 µL of cDNA in a 50 µL reaction.

<sup>4</sup>Measurement is determined pre-vial, prior to dilution, due to the limit of detection of the quantification method.

<sup>5</sup>ddPCR data was obtained post-vial from 9 replicates on the BioRad QX200 Droplet Digital PCR (ddPCR<sup>™</sup>) System.

<sup>6</sup>Use of the QIAamp<sup>®</sup> Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of ZIKV as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells.

**Figure 1: Functional Activity of NR-51223 by RT-PCR Amplification of NS3-NS4 Polyprotein Gene**



Lane 1: Invitrogen<sup>™</sup> TrackIt<sup>™</sup> 1 Kb Plus DNA Ladder  
Lane 2: PCR product from 0.2 µL of NR-51223

/Heather Couch/  
Heather Couch

13 JUN 2019

Program Manager or designee, ATCC Federal Solutions

ATCC®, 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®'s knowledge.

ATCC® 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.

