

Genomic RNA from Zika Virus, R116265 (Human/2016/Mexico)

Catalog No. NR-50610

Product Description:

Genomic RNA was extracted from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with Zika virus (ZIKV), R116265 (Human/2016/Mexico).¹

Lot: 70020575²

Manufacturing Date: 20NOV2018

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (950 nucleotides)	≥ 98% identity with Zika virus	100% identity with ZIKV, R116265 (Human/2016/Mexico) complete genome (GenBank: KX766029.1)
Functional Activity by RT-PCR Amplification³ N3-N4 gene	~ 1080 base pair amplicon	~ 1080 base pair amplicon (Figure 1)
Pre-Vial Concentration by RiboGreen[®] Measurement (Viral, Cellular and Carrier)⁴	Report results	4.3 ng per 100 µL (0.04 µg/mL)
Estimated Amount per Vial⁴	Report results	4.3 ng
Genome Copy Number by ddPCR (Post-Vial)⁵	Report results	1.1 x 10 ⁴ genome copies/mL
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect after serial passage ^{1,6}	No viable virus detected	No viable virus detected

¹Vero cells: ATCC[®] CCL-81™

²Nucleic acid was extracted from a preparation of ZIKV, R116265 (BEI Resources NR-50551 lot 70001080), using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

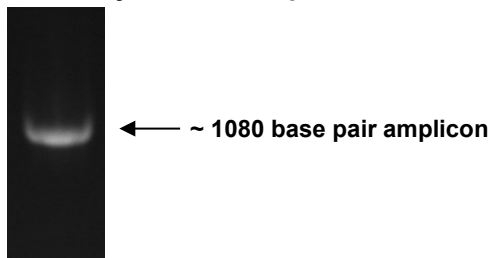
³Amplified using iTaq[™] Universal SYBR Green One-step Kit (Bio-Rad 172-5151) with 5 µL of NR-50610 in a 50 µL reaction

⁴Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

⁵ddPCR data was obtained post-vial from 9 replicates on the BioRad QX200 Droplet Digital PCR (ddPCR[™]) System

⁶Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate flaviviruses as shown by the absence of cytopathic effect (CPE) and viral RNA expression by RT-PCR after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-50610 by RT-PCR Amplification of NS3-NS4



PCR product from 5 µL of NR-50610

/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

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