

Genomic RNA from Zika Virus, PLCal_ZV

Catalog No. NR-50242

Product Description: Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial (Vero) cells¹ infected with Zika virus (ZIKV), PLCal_ZV.

Lot²: 354

Manufacturing Date: 28NOV2016

TEST	SPECIFICATIONS	RESULTS
Sequencing of Species-Specific Region Polyprotein gene NS3–NS4 region (728 nucleotides)	Consistent with ZIKV, PLCal_ZV Consistent with NR-50234	100% identity with ZIKV, PLCal_ZV (GenBank: KF993678) Consistent with NR-50234
Functional Activity by RT-PCR Amplification³	~ 1100 bp amplicon	~ 1100 bp amplicon (Figure 1)
Total RNA Content by RiboGreen[®] Measurement (Viral, Cellular and Carrier)	Report results	3.7 ng per 100 µL
Viral RNA Content by Droplet Digital RT-PCR	Report results	5.1 × 10 ⁴ copies per µL
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected

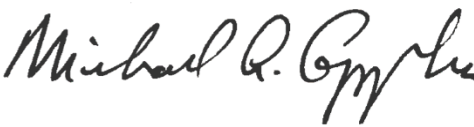
¹Vero 76, clone E6

²Nucleic acid was extracted from a preparation of ZIKV, PLCal_ZV (BEI Resources NR-50234, Lot 64103045), using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

³Amplified using iTaq[™] DNA Polymerase Kit (Bio-Rad 170-8870) with 2 µL of NR-50242 in a 50 µL reaction

⁴Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of Zika virus as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells.

Date: 21 MAR 2017

Signature: 

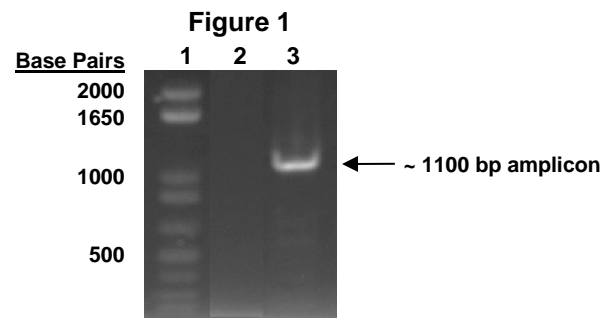
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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: Negative control
Lane 3: NR-50242